

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9831	40199	A	9892	121	2320	EMAFQKAVKGTILVGGGALAT VLGLSQFAHYRRKQMNLAYVK AADCISEPVNREPPSREAQLTL QNTSEFDILVIGGGATGSGCAL DAVTRGLKTALVERDDFSSGTS SRSTKLIHGGVRYLQKAIMKLD IEQYRMVKEALHERANLLEIAP HLSAPLPIMLPVYKWWQLPYY WVGIKLYDLVARKANCLKSSY VLSKSRALEHFPMLQKDKLVG AIVYYDGQHNDARMNLAIALT AA\RYGAATANYMEVVS\LKK TDP\QTGK\VHVS GARCKGCPST GQFEDVRAKCVINATGPF TDSV RKMDDKDAAA\ CQPSAGVHIV MPGYSPESMGLLD PATSDGR VIFFLPWQKMTIAGTTDPTDV THHIPSEEDINFILNEVARNYLS CDVEVRRGDVLAASGIRPLV TDPKSADTQSI SRNHVVDISEG LITIAGGKWTTYRSM AEDTINA AVKTHNLKAGPSRTVGLFLQG GKDWSPTLYIRLVQDYGLESEV AQHLAATYGDKA FEVAKMAS VTGKRWPVIGVHLVSEFPYIEA EVKYGIKEYACTAVDMISRRT LAFLNVQAAEEALPRIVELMGR ELNWDDYKKQEQL ETARK\FL YYEMGYKSRSEQLTDRSEISLL PSDIDRYKKRFHKFDADQKGFI TIVDVQRVLESINVQMDENTLH EILNEVDLNKNGQVELNEFLQL

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9832	40200	A	9893	1	2020	MLKPLMGGGAHRRAAAGARK WDGTAAHASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTGQEFDVRAKCVINATGPF TDSVRKMDDKDAANA/CQA/SA GVHIVMPGYSPESMGLLDPAT SDGRVIFFLPWQKMTIAGTTDT PTDVTHHPIPSEEDINFILNEVR NYLSCDVEVRRGDVLAAWSGI RPLVTDPKSADTQSISRNVVDI SESLITIAGGKWTYRSMAD TINAAVKTHNLKAGPSRTVGLF LQGGKDWSPPLYIRLVQDYGL ESEVAQHAAATYGDKAFAVAK MASVTGKRV/WPIVGVRLVSDF PYIEAEVKYGIKEYACTAVDMT SRRLAFLNLQAAEEALPRLL ELMGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSDIDRYKRRCHKFDAD QRGFMTVVEVQVRVLESINVQM DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQKGRVSGSRLAI LMKTAEENLDRRVPIPVDRSCG GLYFCVRNWWVLGLTDFKNE AADPSGVKLQFTVSVTALKV ARLELFVSPGGLVVLLGSGVKL QIFAPNMAMHNKAAPPQIPDTR RELAELVKRKQELAATLAKFG
9833	40201	A	9894	2	593	ISSAVEFETSQLSGLWTEQSAA RSRGENIVCGPQGPRG/GPWVP AEPTGSPVVSEPLDLLPTDLR QEMPPPRVFKSFLSLLFQGLSVL LSLAGDVLVSMYREVCSIRFLF TVVSLN/NLFLSAFWLGLLYLVS PLENEPKEMTLSEYHERVRSQ GQQLQQLQAELDKLHKEVSTV RAANSERGAKLVFQRLNEGFV

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9834	40202	A	9895	1	1105	MRRSSRPGSASSSRKHTPNFFSE NSSMSITSEDSKGLRSAEPGPGE PEGRRARGPSCGLLFQGLSVLL SLAGDVLVSMYREVCSIRFLFT AVSLLSLFLSAFWLGLLYLVSP LENPKEMLTLEYHERVRSQG QQLQQLQAELDKLHKEVSTVR AANSERVAKLVFQRLNEDFVR KPDYALSSVGASIDLQKTSHDY ADRNTAYFWNRFSFWNYARPP TVILEPHVFPGNCWAFEGVQGG VVIQLPG/HECTLSBITLQHPPPS VEHTGGANSAPRDFAVFFLLSF FTHQGLQVYDETEVSLGKFTFD VEKSEIQTFFHLQNDPPAAFPKV KIQILSNWGHPRFTCLYRVRAH GVRTSEGAEGSAQGPH
9835	40203	A	9896	10	395	VEPGKRLIDRIVETICSCFQGPQ TDEGVQLQIIKALLTAVTSPHIEI HEGTILQTVRTCYNILASKNLI NQTTAKATLTQML/NHARSDSG KVSTENGDA PRERGSSLSGTN\ DGAQEVVKDILEDVVT

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9836	40204	A	9897	1	1698	MLGTSVEDIAQFLHQEERLDST QVGDFLGDSARFNKEVMYAYV DQLDFCEKEFVSALRTFLEGFR LPGEAQKIDRLMEKFAARYIEC NQGQTLFASADTAYVLAYSIIIM LTTDLHSP/PDLEMHQAGARS ADRNRCEDALPVWIWA*KRRE PEGPHIGRRRVHGPWPR*FGEW RSG*KTDGQLPRIGW*DQLAEC GCSCGQDFYWVYQTGWKCNS* LCPLAVCCVHG*TGFPSSSHV QLAEDCGDIIHQHESDPTTVVS NMACDWRSQ*DKL*MLGTSV EDIAQFLHQEERLDSTQVGDFL GDSARFNKEVMYAYVDQLDFC EKEFVSALRTFLEGFRLPGEAQ KIDRLMEKFAARYIECNQGQTL FASADTAYVLAYSIIIMLTTDLH SPQILKCISQLELAQLIGTGKVT RYLSGSGRERESLKGHTLAGE EFMGLGLGNLVSGGVDRQM ASFQESVGETSSQSVVAVDRI FTGSTRLDGNAIVDFVRWLCA VSMDELASPHHPRMFSLQKIVE ISYNNMNRIRLQWSRIWHVIGD HFNKTSCDRLRELHVSEVFTVI TETRETKGPRDTPFIETLVKVK DAEDQLGARVGYIELDLNSGKI LESFRPEERFPMMSTFKVLLCG AVLSRIDAGQEQLGRRRIHYSQN DLVEYSPVTEKHLTDGMTVRE LCSAAITMSDNTAANLLLTIG
9837	40205	A	9898	1	492	
9838	40206	A	9899	1	3555	
9839	40207	A	9900	1	4145	MFVLKVGCPSSLRLRPPRSLLH YTCFTSVPVLVQVCNPNEVDV AIFAVDSLRLQSMKFLEKGELA NFRFQKDFLRPFHEIMKKNRSP TIRDMAIRCIAQMVNSQAANIR SATIFQHHPAAIDSFQDAVKCL SEFACNAAFPDTSMELIRLIRF CGNYL\SERPRVLLEYTSDDMN VAPGDRVWVRGWFPILFELSCII NRCKLDVTRGLTVMFEIMKS YGHTFEKHWWQDLFRIVFRIFD NMKLPEQLSEKS

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9840	40208	A	9901	1	5477	MQESQTKSMFVSRALKILADK EVKRPQHSQLRACQVALAWK LLLIAPLAVGKATPVKMWSNK VEQLTVMNMHSAEQETDEIKA EIEKQRLGTAAPPKANFIEADK YFLPFELACQSKSPRVVSTSLDC LQKLIAYGHITGNAPDSGAPGK RLIDRIVETICSCFQGPQTDEGV QLQIKALLTAVTSPHIEHGTI LQTVRTCYNILASKNLINQTT AKATLTQMLNVIFTRMENQVL QEARELEKPIQSK
9841	40209	A	9902	2	740	TGWEGRAEAEVPQDDRREPRH S/IEVEEDQKLVSASLEPIGG/P PDCPQKPQ\PQCPLSPSKKWGC DLCL*QHKLAQKWRREISTSV SQPGLGPGRTADTGPSLPTTPA GQEAGRTPAPPAWSAFDLDST VVKMEKGWICS*KYTRSQASC SELPRLGRAGPTEELGMPTQE VAPLPARG*GPESLPL/ASRQEF LSGRTVRVKLG LPLPLTEGKIV LPGGEGGSPHVCPSPWIIERRTA DQGVVAE
9842	40210	A	9903	1	1376	MPSSSVGPAPSLRGSSEQLAW LRGIFSYRSPPPSPQSSPNQTR SRQHYAPSVFEKYTASVTVGSK EVTNLNLYDTAALAGPWPALHS WRPLRGAGCGALEAKPYTKQ WAALGPPMVPGLRLRYLLWSLQ TLATPGQRPREGPHAHTPRAEA TAGQEPARDPKGSARNPEPQRP RGKGVRAAPKQGV RGMSIPAQ PHASTRAGSERRSE\QRRLSSF TGSCDSDLLKFNQLKFRKKKLLK FCKSHIHDWGLFAMEPSGDPLE SAWIHARNAPTTTPSQTPHPPPR EAGNPNNPPRAPEARGPGHDKA AQKACVHGGPNTQHPRPQPEP AVPPAALAPPKHQLSSQASSPS RLGRAAERPHKTQQRQTPTHT GPRAAATAEHAPQALPPAPAP HYNRTRPAQLRNPTPKKGSEE PAQPTKHTPATPAKRDPKGGG ARRRPARPLQPHSGGEDEKES

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9843	40211	A	9904	724	2076	KLCPCLYHFFHTNVQRHAPFVA NPFLTHIQISTKHPIVGTTELL LCVGGVQRVLQLAPQRLQLLA QVPALLRLGPGHTLRLQVLLG LGQGCLSLPQGFQQLGPGPTLV FCPLPELLEEDAVGEALATDAD ALQDPVAAKL VQHQPWLQLPG LGKQPPPLPVSQLEVGRAVPLH HPQGALLLLALLEGLQSLLPRV HSPFLHDTFRRHRPVPASLQLN SFEQLCITTPQKLQQLFNHTMF VSPPAVNVQANPAGLLALLDEE CWFPKATDKSFVEKVAQEQQG HPKFQ\RPRLRDQADFSVLHY AGKVDYKANEWLMKNMDPLN DNVAALLHQSTDRLTAEIWKD VEGIVGLEQVSSLGDGPPGGRP RRGMFRTVGQLYKESLSRLMA TLSNTNPSFVRCIVPNHEKRAG KLEPRLVLDQLRCNGVLEGIRI CRQGFPNRILFQEFRQ
9844	40212	A	9905	2	480	VGCMGCSKGPWRQAFQVDVH VSDLALPQCRLQTGMRGAFGK PQGTVARVHIGQVIMSIRTKLQ NKEHVIEALRRAKFKFPGRQKV CSAAAPFSLCPRPPDSVLSIAP *IHISKKWGFTKFNADEFEDMV AEKRLIPDGCGVKYIPSRGPLD KWALHS
9845	40213	A	9906	1	485	SDEYDQLCSEALVGAQICAKK YIVKCCGKNGFHIRVRLHPFHV ICINRMLACAGTDRLQTGMGG AIGKP\QGTVARILIGQVIMSIRT KLQNKEHVIEALRRAKFKFPGR QKIHISKKWGFTKFNADEFEDM VAEKRLIPDGCGVKYIPSRGPL DKWALHS
9846	40214	A	9907	198	452	DYYLEGLINHIVHHDHFLNLQN HSSNLPVAEICYR*RYRKKVQQ RIIAKDYTTELFNSNR*LFN

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9847	40215	A	9908	2	1968	SYLHCKWATMEELEKDPRIAQ KIKRFRNKQAQMKHIFTEPDED LFNPDYVEVDRILEVAHTKDAE TGEEVTHYLVKWCSLPYEEST WELEEDVDPKVKEFESLQVLP EIKHVERPASDSWQKLEKSREY KNSNQLREYQLEGMNWLLFN WYNRKNCILADEMGLGKTIQSI TFLSEIFLRGIHGPFLIAPLSTIT NWEREFRTWTEMNAIVYHGSQ ISRQMIQQYEMVYRDAQGNPL SGVFKFHVITTFEMILADCPEL KKIHWSCVIIIDEAHLKRNCK LLEGLKMALEHKVLLTGTPLO NSVEELFSLNLFPSQFPSETA FLEFGDLKTEEQVKKLQSLKP MMLRRLKDDVEKNLAPKQETII EVELTNIQKKYYRAILEKNFSFL TKGANQHNMPNLINTMMELRK CCNHPYLINGAEEKILEDFRKT HSPDAPDFQLQG\MIQA\AGKL VLIDKLLPKLIAGGHKVLIFSQM VRCLDILEDYLIQRRYTYERIDG RVRGNLRQAAIDRFCKPDSDF VFLLCSTRAGGLGINLTAADTCII FDSDWNPQNDLQVPEGRIQKV WEQMSWPRAQPQDNAAAACL QDFGSQGLGVQSEETGPFHNRQK QDSGNSHTAPRGRESFIKPPSSR DLLPLKIQKEGPATNYNS
9848	40216	C	9909	223	402	

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9849	40217	A	9910	1	1710	MFEKAARQEWIQVAKSVTRVA MSSYTFQKNPDLISVGEDVEKK LELSYAAVTMAWGQYGDYGY PYQQYHDYSDDGWVNLNRQG FSYQCPQQGVIVAVRSIFSKE ADSVSRASATGPDGQFFLLER VGTCKTTAEAQPQRDDPYLVT RTVEGLSRTVEGVGRGLTQAA AGEGAGAVEAAW/NSLCGPFS TPMASDEETEAIRGHETRPDDT AKNSGAIQQHSQCSWPLY/RA PHSVKRYQTCSNGLVAGFQS RYFESVLDREWQFYCCRYSKR CPYSCW/LSLAADQTLMTPGVG EAPRKCSSFRKGNRTIEPALTGP KSPTYSVGMPSLKLRPND SHPS AVLLLPNFWLTTEYPGHY GEE MDMISYNYDYYIRGATTTFS AV ERKEERRERKGIGDKKHTEPTV LVWAAIPHYLRLGNLRTIEIYFH SSGSWKVQDQVDPEEPPARQN HRDRVPCHTPPLGGQEGDSQPV VMRAKDHYELEKQKALGQVE DEEDLCQQQRLPEQTYGSEEAP QEAKKNLGSPEPNSQAGA QKPI SMATNRAVFDVTCNFSPHWLQ CLQSRSLSPEDPGL
9850	40218	B	9911	101	1237	
9851	40219	A	9912	1	622	NLSDRHRGSHLESQHFQRLKQE DLLSPRIQDQPGQHWETLSHINI VVIGHVDSGKSTTGHLIYKCG GIDKRTIEKFEKEAAEMGKGSF KYAWVLDKLKAER\ERGITIDIS LWKFETSKYYYVTIIDAPGHRDFI KNMITG\TSQADCAVLIVAAGV GEF\EAGISK\NGQ\TREHALPG/ YSQKRYEEIVKEVSTYIKKIGYT PDTVACVP
9852	40220	A	9913	1	762	VVQTQISKTADELISYWGTSFPP PFAASLTLYELEYCITIDISLWK FETSKYYATVIDAPGHRDFIKN MITGTSQADCAVLIFAAGVGEF EAVTFAPVNVTTTEVKSVMHH EVLSEALPGDNVDFDVKNVSV KEVHHGNVAGQISAGCAPVLD CHMAHIACKFAKLKKTGSTS GKKLEDGPTFLKSGDAAIVDM VPGKPMCVESFSVYPPLSRFAV CDMRQTVAVGVIEAMDKMAA\ GAGKVTMSAQKAHNAK

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9853	40221	A	9914	1	618	MVQARPGAHPTLLPGPTAAWV SGFSGGSDLTGAREAQERGR WSPTESSASVSPVAKVSKFTLS SELEGGDYPKERERTGGGPGRP PDWTPHGTGA\LQSPHPRTAPA PHPTPCPGRPRDAGQSPGAPA WSPRVHRPTPSLLPPRRWTA LWAAWQRPLPASQPGRGTSPG NPGPGRTPPSPQEVGSPGHIHIS LRTGFPTL
9854	40222	C	9915	3	406	
9855	40223	A	9916	1379	2096	NGGGCGAARGGAAPGEGTRRG ACWATRGLPGTGRSAAAPARR GERQQLAMDVFLMIRRHKTIF TDAKESSTVFR/ELKRIRRGQSS KRPPDEQL\YK\DDQLD\DG\ KTLGECGF\TSQNRHRPQAPAT VGSGLPASSAASSTDDTFEALCI EPFSS\PEL\PDVDGRPQGFEG SAQLNKAVQVETPQEGPIFPQL KGDLSLPGCCFFPPLPGMGP TPCGLLLGLVLGSSCAVLSPRS
9856	40224	A	9917	1	695	MAHAGRTGYDNREIVMKYIHY KLSQRGYEWDAGDVGAAPPG AAPAPGIFSSQPGHTPHPAASRD PVARTSPLQTPAAPGAAAGPAL SPVPPVVHLALRQAGDDFSRRY RGDFAEMSSQLHLTPFTARGRF ATVVEELFRDGSVNREMSPLV DNIALWMTEYLNRLHTWIQD NGGWPWDFLIGATTPVTIPYLP YHSTEECQLINVKGTAEFKIPFA KPDEMIQAKIIDGC
9857	40225	A	9918	3	422	CSLKNWREVLALLTYSGTEKF PEL\DLMEKVMVLNRSLEQLR GPH/GGSAVLGQQSPFPFPRIV VGATLHSETSSYRLGSQPSHQ VPTSPRPRVFTPQSSPAMPLAP SHSPYQGPRTQNISDYRAPGP QAIQPLPL
9858	40226	A	9919	1	849	

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9859	40227	A	9920	3	868	NSSPPFPFPRIVVGATLHSKETS SYRLGSQPSHQVPTSPRPRVFT PQSSPAMPLAPSHPSYQGPRT QNISDYRAPGPQAIQPLPLSPGV RPGPQDSWKEAPAPRGNLQRN KLPETFMPPAPITGPS/IM/RPHP* ATRDSSTLAPLSPV*VMLPQEF QENS\PAGDKDNVFP SLGKPPSP PCVQVMVDGPHSSR/PCAEGD WVQVPGVLTAEKGRLLISPTLL *WEQDCESLGTSP*GSHEKDS LPLWPFSLLLYQQLQHLPEKM ERKELPPEHQSLKSSFEALLQRC
9860	40228	A	9921	1	307	MKLKELERPAVQAWSPASQYP LYLATGTSAQQLDSSFSTNGTL EIFEVD FRDPSLDLKH RGVLSA LSRFHKL VWGSFGSGLLESSGV IVGGGDNGMLILYNVTHILSSG KEPVIAQKQKHTGAVRALDLN PFQPPEDIKALSWNRQAQHILSS AHPSGKAVVWDLRKNPIIKVS DHSNRMHCSGLAWHPDIATQL VLCSEDDR LPVIQLWDLRFASS PLKVLESHSRGILSVSWSQADA ELLLTS AKDSQILCRNLGSSEPC PRLVFISQVTTESEFLMRS AELQ EALGSGNLLNYCQNK SQALL QSEKMLWQFLKVTLEQDSRMK FLKLLGYSKDELQKKVATWLK SDVGLGESPPKGN DLNSDRQ QAFCSQASKHTTKEASASSAFF DELVPQNMTWPWEIPITKDIDGLL SQALLLGELGPAVELCLKEERF ADAILAQAGGTDLLKQTQERY LAKKKTKISSLLACVVQKNWK DVVCTCSLKNWREALALLTY SGTEKFPELCDMLGTRMEQEGS RALTSEARLCYVCSGSVERLVE CWAKCHQALSPMALQDLMEK VMVLNRSLEQLRGPHGVSPGP ATTYRVTQYANLLAAQGSLAT AMSFLPRDCA/PAARDIYAPSTN YCSSYEPHP*ATRDSSLTAPCLQ SASAPAT*EDGKEGAAPRASVL EEQL*GASPTLLPVCN*LKDKK

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9861	40229	A	9922	3	2751	SVSWSQADAELLTSAKDSQIL CRNLGSSEVVYKLPTQSSWCFD VQWCPRDPSVFSAAFNWISL YSVMGRSWEVQHMRQADKISS SFSKGQPLPPLQVPEQVAQAPLI PPLKKPPKWIRRP TGVSFAFGG KLVTFGLPSTPAHLVPQPCPRL VFISQVTTESEFLMRSaelQEAL GSGNLLNYCQNKsQQALLQSE KMLWQFLKVTLEQDSRMKFLK LLGYSKDELQKKVATWLKSDV GLGESPPQPKGNDLNS
9862	40230	A	9923	363	543	
9863	40231	A	9924	2	737	EAETEFVRCIKHMFTHIVFQ LFHLLTFQDCTNTLNDQLEK VTVQMEPSESyeVLSCIPASLP YNQPGICYTLVRLPDDDP TAVA GSFSC TMKFTVRDCDPNTGVDP EDGNDDEYVLEDLEVTVSDHIQ KVLKPNFAAAWEEVGDTFEK EETFALSSTKTL EEAVNNIITFL GMQPCERSDKVPENQDASHSL YLAGIFRGGYDL\LRARLALA DGVTMQVTVRCKHRTVPDIILA
9864	40232	A	9925	327	464	GSPTTRPAKPLTLSSGHLRSRPR WAEGPQYHLP*ISAPRAKLGV MM
9865	40233	A	9926	2	1179	WQPDIGPYGGLLNvvVDGLFII GWMYLP PHDPHVDDPMRFKPL FRIHLMERKAATVECMYGHKG PHHGHIQIVKKDEFSTKCNQTD HHRMSGGRQEEFRTWLREEWG RTLEDIFHEHMQELILMKFIYTS QYDNCLTYRRIYLPSPRPDDLK PGLFKGTYGSHGLEIVMLSFHG RRARGTKITGDPNIPAGQQTVEI DLRHRIQLPDLENQRNFNLSRI VLEVRERV RQEQQEGGHEAGE GRGRQGPRESQPSPAQPRAEAP SKGPDGTPGEDGGE PGDAVAA AEQPAQCGQGQPFVLPVGVSSR NEDYPRTCRMCFYGTGLIAGH GFTSPERTPGVFILFDEDRFGFV WLELKSFSLYSRVQATFRNAD APSPQAFDEMLKNI\QSLTS
9866	40234	A	9927	287	537	TGKFPSC/CLLSFYGTGLIAGHG FTSPERTPGVFILFDEDRFGFVW LELKSFSLYSRVQATFRNADAP SPQAFDEMLKNIQSLTS
9867	40235	A	9928	1	3651	

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9868	40236	A	9929	1	3720	MEEMFGGGAADDY GKAGPPE DEGDPKAGAGPPPGPPAYDPY GPYCPGRASGAGPETPGLGLDP NKPPELPSTVNAEPLGLIQSGPH QAAPPPPPPPPPPPAPASEPKGG LTSPIFCSTKPKKLLKTSSFHLL RRRDPPFQTPKKLYAQEYEFEA DEDKADV PADIRLNPRRLPDLV SSCRSRPALSPLGDIDFCPPNPG PDGPRRRGRKPTKAKRDGPPRP RGRPRIRPLEVPTTAGPASASTP TDGAKKPRGRG
9869	40237	A	9930	503	739	QGWRRRRPISKISESRNMQNFL HALSNCLPEGGA*DRCSSRLEE GRQLPPLLLGSLQVAKKSGGTG WMVRCSQCLFLG
9870	40238	A	9931	1	1148	MGGKGDDSWVISATPLGKCCA AVPLGGNPTLRVDQLWRKQRP PLQQCTASAPGGWVTS LMGAG THAANTGFQLVWSSKRPMYKV LQAFFGVQRS DR SAMNGQGFS KCVGMPITHTRQQADLGRGPE ETEDKKQQSRGSDEL RSEGE EP EPYLLRTSK\VKDKERILKAARE MKQIIYNGAPIHLAADF SVETL QAKKEWCDIFKVLKKKTFYPK MVLTAGPSHPQS VISVSFTGLA NAASLTMSPD LHGQPGFAGLSS VAAVDWQWALLRSP PQGRM GLLPICQATQGPQLCVASPSDK EGFLLLFGKEIARLTNKG GARL YKCDIVQGVCCEDPLATLDWE LRPDLEQGERPTPERHKPFLLG KSFSAPLIKICRYEQMF
9871	40239	A	9932	333	689	NSFLTCLPPVSI*TDLLQPSAQ WKQLSLARRNVHSTRLAGARR CAASGSPVAAHCYHPVSGHSR LLHGCQHGHWSWQVPEVPPG SPFSLAPVWKRRQTALPAILHL PVEHYYPEL

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9872	40240	A	9933	84	933	PLTSPEAFSNRCGLRGPP\PCVP VGRLQF\NDVSSLGICLPDSSCC SSWHGPHSLHH/HVQACKASIR ASGTAASANCAFSRYHVHCSIA FQIKVLHNLIVLTVIIPAAEHMA WGPQIAQPNPPHRASGHSSWGP EVGPKLSTTAILVGTYPPVPV GLETGPPSLFQPLPISTHTAWNT ENCPANATVIAHPTLAAQGTKN PPTLLVHHCHYQHLSLKDDGT RRENSLKLGEKGKILQTEGIQK GMDPTMEYATNYWKKLQLWK RRQTALPAILHLPVEHYYPEL
9873	40241	A	9934	1	627	MESLDTETSTWGECHRKIRGM VPQVKELAEAAAAPPDGA YRREKQKYEALRKQSKKGT REDQQIIKLNLPCTNHCIWQSTH EHIPALSDLSGKRAKQVIPVKG GEHYERTLALLNQFKSKLTQAI AETPENDIP\ETEVE\EDDEGWMS HVL\QFEGKSRKSGKVPSMQDS DTFEIYDPRNP/LVNRREGKK AKSLMREKKERRLK
9874	40242	A	9935	1	371	PMRPAFTRVEMARVLMERNQY KERLMELQEAVRWTEMIRASR EHPSVQEKKKSTIWQFFSRLFSS SSSPLRPKRPYPSVNIHYKSPT GCSV\AAGFSPPCHLHCDVCPL PRLFPQDLEVTPG
9875	40243	A	9936	2	186	
9876	40244	C	9937	109	408	
9877	40245	C	9938	161	341	
9878	40246	C	9939	303	439	
9879	40247	C	9940	201	419	
9880	40248	C	9941	122	307	
9881	40249	A	9942	3	80	YNPAPYKEKTITL/PCPRKLGPP QGS/*NGPPSSSSSSQCSVSFND PHLPEGQVQAAR*WAPPGIL
9882	40250	C	9943	249	427	
9883	40251	A	9944	90	244	TVVPHDPCGTDHVCETHMD MCPSHSVMLCGWLTFAEFRGA MGEGRRESFLLNQASFCY*CSQ AGFSSNLWRCRAGRGN LWCHMTLV AQMPYV KHTWT CVPATVLC SVAGSPLLSSGVQW GREGGKASS
9884	40252	C	9945	4	204	
9885	40253	C	9946	340	497	
9886	40254	C	9947	158	184	

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9887	40255	A	9948	200	386	LFYTME*IMAFLLSSSSSPGRPF* RILGGAKVYAGMQRYSFLLIGS RIITYLGIFGRELYFC
9888	40256	B	9949	47	622	
9889	40257	A	9950	1	630	
9890	40258	A	9951	1	782	
9891	40259	A	9952	1	677	MHGLGRWDACPQDEMSESGQ SSAAATPSTTGTKSNTPTSSVPS AAVTPLNESLQPLGDYGVGSK NSKRAREKRDSRNMEVQVTQE MRNVSIGMGSSDEWSDVQDIID STPELDMCPETRLDRTGSSPTQ GIVNKAFGINTDSLHELSTAG\A S*VIGDVDEGADLLGNDRKK VYTSVQTRPPQACTFSVRLVES THAELVGIEGRLYHKIHLPLRVH GAVGYSVLT
9892	40260	C	9953	202	366	
9893	40261	A	9954	1	2429	MKEGGWGC DPVGRGVTS GHV LQMKLLPFRQKKAHIMEIQLNG GTVAEKVAWAQARLEKQVPV HSVFSQSEVIDVIAVTKGRGVK GVTSRWHTKKLPRKTHKGLRK VACIGAWHPARVGC SIARAGQ KGYHHRTELNKKIFRIGRGPHM EDGKLVKNNASTSYDVTAKSIT PLGGFPHYGEVNND FVMLKGC IAGTKKRVITLRKSLLVHHSRQ AVENIELKFIDTTSKFGHGRFQT AQEKRAF MADGLSLSPAASDS DYPPGEMFLDS DVPEDPGAD GVLAGITLVGCATRCNVPRSNC SSRGDTPVL DKGQGEVATIANG KVNPSQSTEEATEATEVPDPGP SEPETATLRPGPLTEHVFTDPAP TPSSGPQPGSENGPEPDSSSTRP EPEPSGDPTGAGSSAAPT MWLG AQNGWLYVHSAVANWKKCLH SIKLKDSVLSLVHVKG RVLVAL ADGTLAIFHRGEDGQWDL SNY HLMDLGHPHHSIRCM AVVYDR VWCGYKNKVHV IQPKTMQIEA SAGQGPGEGRLL LASSSPASSI RKSTRPTH DSTKSFDAHPRES QVRQLAWIGDGVVVSIRLDST LRLYHAHTHQHLQDV DIEPYVS KMLGTGKLGFSFVRITALLVAG SRLWVG TGNGVVISIPLTETVV LHRGQLLGLRANKTSPTS GEGA RPGGIIHVYGD DSSDRAASSFIP

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9894	40262	A	9955	9	452	KIKVLSKNSQVTD FVPVPTLLND GQCLGYNSTPYKEKAITL/PCPR KLGPPQGSFKTA/APSSSSPSFNF FNGSQNSVTNFWSSCFH*KVLI LKTNNLKLPHAKKKTkvv/LQ NILLSF*RFYDALLSLTSLLLL LNGQLKQTVMRPFFHH
9895	40263	A	9956	1	3223	ATATPSTTGTSNTPTSSVPSAA VTPLNESLQPLGDYGVVSKNSK RAREKRDSR\NMEVQVTQEMR NVSIGMGSSDEWSDVQDIIDST PELDMCPETRLDRTGSSPTQGI VNKAFGINTDSLY\HELSTAGS\ EVIGDVDEGADLLGEFSGMGK EVGNLLENSQLLETKNALNV VKNDLIAKVDQLSGEQEVLRG ELEAAKQAKVKLENRIKEEEE LKRVKSEAIARREPKEEAEDVS SYLCTESDKIPMAQ
9896	40264	B	9957	176	658	
9897	40265	A	9958	2	5671	AGGPCVRSSRELWTILLGRSAL RELSQIEAELNKHWRRLLEGLS YYKPPSPSSAEKVKANKDVASP LKELGLRISKFLGLDEEQSVQLL QCYLQEDYRGTRDSVKTVLQD ERQSQALILKIADYYYEERTCIL RCVLHLLTYFQDERHPYRVEY ADCVDKLEKELVSKYRQQFEE LYKTEAPTWETHGNLMTERQV SRWFVQCLREQSMLLEIIFLYY AYFEMAPSDLLVLTKMFKEQG FGSRQTNRHVLVDETMD
9898	40266	A	9959	1	404	MVDQEAIFGCKNRNNC SHLEPP VSRLEGGA FVRDLSPTQYLLA SCPYQYDGSFVIQQIPSSNLFMV VVDSSCLCESVAPITMAPIEIRYI LLC\EVHSLPRKPENARECGGA PSLAQAQTVLLLLPLLLMLFSR
9899	40267	A	9960	1	1374	
9900	40268	A	9961	102	205	

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9901	40269	A	9962	1	1527	MVPDAAVLAQLAIRARVNRRW PTGLSAPHLCGAACSRCHAAI AKYFGDALPACAKGCDHCQNP TAVRRRLEALERSSSWSKTCIG PSQGNGFDPPELYEGGRKGYGG FSRYDEGSGGSGDEGRDEAHK REWNLFYQKQMLRKGDPKI EEFVPPDENCPLKEASSRRIPRL TVKAREHCLRLLEEALSSNRQS TRTADEADIFRAKAVELEHETF RNAKVANLYKASVLKKVADII RASKDGQPYDMGGSASCSAQ AEPPEPNEYDIPPASHVYSLKPK RVGAGFPKGSCPFQTATELME TRIREQAPQPERGGEHEPPSRPC GLLDEDGSEPLPGPRGEVPGGS AHYGGPSPEKKAKSSSGGSSLA KGRASKKQQLLATAAHKDSQS IARFFCRRVESPALLASAPAEAG ACPSCEGVSGTPDWPQRSTQGR KMEPGDIRLPLRLRSASGRGQ APARPETRAPLKSSPPLQRTHG KGKRPRFPARRTQRASLRGHA PQPIPPS
9902	40270	A	9963	2	99	
9903	40271	A	9964	115	1360	ENGQLHVMVNLALDGVRSSLQK PRPFRFLFPKGFVSVELCMNREDD TARKEKTDHFITYTREGNRLRY SAKSLFSLVLGFISDNVDHIDSLI GFPEQIAEKLFSAAEARQKFTEP G\AGL\RALQKFTGGLWEVWVL CSLCFLLWKLDPICCKLGDEHE LLEHLTNEALSRY*PVTTCT*IV SVLF*RLIQQDYRVMKRGLENL TLDDLSCKFSSKL*IILMLEEWP *RSCSSFSGTGLKVRLLVPSLIFL DSTI*YFACANWEFDHSNCKTE GWADQVLQIFLPCG*CSFSS*FQ VSYPTSRETAESCFRSTLSLVQN MHDEAAQRCEKFPFL*SFLPFI CILKAVRLF*KLQFYKEKAPDC HGPVLKHEAISSQESKSKKRP FEESETEQNNSSQPSKQKYVCL AVEDWDLNSY

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9904	40272	A	9965	3	1026	DNVDHIDSLIGFPEQIAEKLFFA AEARQKFTEPGAGLRALQKFTE AYGSLVLC SLCLRNRYLVISEK LEEIKSFRELTCLDLSCCKLGDE HELLEHLTNEALSSVTQLHLKD NCLSDAGVRKMTAPVRVMKR GLE\NLTL\DLSCNP\ETGGRA LGYPLFLFRGNLN\CFRDISGDR GSRDIKTL\KHKLQTHIGLVHSK VPLKEFDHSNCKTEGWADQIV LQWERTVTA EAVKPRETSEPIAA AQRFGKRSRAEAPLK\CPLAD TH\MNSS\EKLQ\FYKEKAP\DCH GP\VLKHEAISKPRSPKSKSKRP FEESETEQNNSSQPSKQKYVCL AVEDWDL\LSNY
9905	40273	A	9966	1	289	VKHCLHRPILWDPWKTSGIQQ VLTPL*KAMEKLEAILLIICSLE AIGLITLPSLSMTQFLQLHVECC YVSPDQTPYFIDVETEAMKDEV TVHNPHG
9906	40274	A	9967	1	1413	MVVPPNIAELKNLEVLNFLNNQ IEKLPTQISRLQKLKHLNLGFLS PCNSMNRLNISPQGFGLPALE VLDLTYNLNLNENYLPGNFFYLT TLCALYLSDNDFEILPPDIGKLT KLQILSNRDNNLISLPKEIRVLT QLKELHIQGNRLTVLPPELGSR GGSGSRFSAETATGGAQNAPPS VLGSAGTIFK\QRRNPSPAALRG GSVAA*PSPAAAKYGKDQREH LPTAAGDGVGWEPTDIQVGS ATAQALSQANAARGRLSTAQA AGSLHVECCYVSPGQTLYFTDV EIEAMKDESRGISILYKHRHLK VPLDQKLPKSKGHQPDGYGQH DHKPQMTSLTRNIATLR
9907	40275	A	9968	1	619	MNRLNISPQGFGLPALEVLDL TYNNLNLNENYLPGNFFYLTTLCA LYLSDNDFEILPPDIGKLTQLQI LSNRDNNLISLPKEIRVLTQLKE LHIQGNRLTVLPPELASSRCGP LSHPYAGKRIPRNAVFKFEQNT\ PWHTPPKKAGREMLLDVTGFP EAATSKPPAFLHRRRGRGSWNP RSRSSSLQRTPWPPGSREAEYPP ASGA

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9908	40276	A	9969	810	1672	GLPSVTMSKSLKKLVEESREKN QPEVDMSDRGISNMLDVNGLF TLSHITQLVLSHNKLT MVPNIA ELKNLEVLNFFNNQIEELPTQIS SLQKLKHLNLGMNRLNTLPRG FGSLPALEVLDLTYNLSENLSL PG\NFFYL\TTLARALYLSDN\DF EILPPDIG\KL\TKLQILSLRDNDL ISLPKEIGELTQLKELHIQGNRL\ TVVPPEL\GNLGF*LGQKQVFK AENNPWVTPIADQFQLGVSHVF EYIRSETYKYLYGRHMQANPEP PKKNNDKSKKISRKPLAANNR
9909	40277	C	9970	120	347	
9910	40278	A	9971	2	10018	LCVSPVTAGRPASRLREMEVEQ EQRRRKVEAGRTKLAHFRQRK TKGDSSHSEKKTAKRKGSADV ASVQEESPVTKEDSALCGGGDI CKSTSCDDTPDGAGGAFAAQP EDCDGEKREDLEQLQKQVND HPPEQCGMFTVSDHPPEQHGM FTVGDHPPEQRGMFTVSDHPPE QHGMFTVSDHPPEQRGMFTISD HQPEQRGMFTVSDHTPEQRGIF TISDHPAEQRGMFTKECEQECE LAITDLESGREDEAGLHQ
9911	40279	A	9972	2	5196	APLDGEVELLQQKLREKLDEFN ELAIQKESADRQVLMQEEIQR LEEMNINIRKKVAQLQEEVEKQ KNIVKGLEQDKEVLKKQQMSS LLLASTLQSTLDAGRCPEPPSGS PPEGPEIQLEVTQRALLRRESEV LDLKEQLEKMKGDLESKNEEIL HLNLKLDMQNSQTAVSLRELE EENTSLKVIYTRSSEIEELKATIE NLQENQKRLQKEKAEIEQLHE VIEKLQHELMLGPPVVEVSDS QAGSLQSELLC
9912	40280	A	9973	1	8277	GEFGSEKKTALHEKEETLRLQS AQAQPFHQEEKESLSLQKKN HQVQQLKDQVLSLSHEIEECRS ELEV LQRRERENREGANLLS MLKADVNLSHSERGALQDALR RLGLFGETLRAAVTLRSRIGE RVGLCLDDAGAGLALSTAPAL EETWSDVALPELDRTLSECAEM SSVAEISSHMRESFLMSPESVRE CEQPIRRVFQSLSLAVDGLMEM ALDSSRQLEEARQIHSRFEKEFS FKNEETAQVVRKHQ
9913	40281	A	9974	1	393	

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9914	40282	A	9975	2	153	
9915	40283	A	9976	184	790	KFTKHISMNQEDLDPDSTTDVG DVTNTEEEELIRECEEMWKDME ECQNKLSLIGTETLTDSNAQLSL LIMQVKCLTAELSQWQKKTP TIPLTEDVLITLGKEEFQK\RGQ DLEMVLSTKESKNEKLKEDLER EQRWLDEQQQIMESLNLVHSE LKNKVETFSERJFNLKTKML NIKEYKEKLLSTLGEFLEDHFPL
9916	40284	C	9977	23	217	
9917	40285	A	9978	25	100	
9918	40286	A	9979	1	2850	
9919	40287	A	9980	108	1132	HPHQVETSRDVAGEQSHAVAF MSTGISQADVCRLEWFSAPNLK GRPRKKKPCPQRRDSFSGVKDS NNNSDGKAVAKVKCEARSALT KPKNNHNCKKVSNEEKPKVAI GEEGRADEQAFVLVALYKY\MK ERKTRIERIPYLGFNQINLWTMF QAAQKLGGYETITARRQWKHI YDELGGNPGSTSAATCTRRHYE RLILPYERFIKGEEDK\PLPPIKP RKQENSSQENENKTKVFGTKRI KHEIPKSKKEKENAPKPQDAAE VSSEQEKEQETLISQKSIPEPLPA ADMKKKIEGYQEFSKPLASR VDPEKDNETDQGSNSEKVAEE AGEKGPTPPLPSAPL
9920	40288	B	9981	177	3543	
9921	40289	B	9982	63	374	

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9922	40290	A	9983	1	2023	MGGGSWAPTGLCPLQSLAMS PEKRKLAAQEGQFTEPRPEEP KEKLHTLEEFSEFFRAPEKDM VSM AVLPLARARGHLWAYSC PLRQPLLKRVHANVDLWDIAC QIFVDILPHQPACTSAVGVSV YPQSVSAWSCPSTVLLDSHTIL RYMGDYPSRQAWPTLELTDQIF TLALQHPALQDEVYCQILKHLT HNSDRHSEERGWQLLWLCTGL FPPSKGLLPHAQKFIDTRRGKLL APDCSRRIQKVLRTGPRKQPPH HVEVEAAEQNVSRICHKIYFPN DTSEMLEVVANTRVRDVCDSI ATRLQLASWEGCSLFIKISDKVI SQKEGDFFFDSLREVS DWVKK NKPQKEGEEASVELGEGVAGW VEGALAASVRPMPIHPSIRSRVS LGCNNQALGPGGAPVTLPYQ VYFMRKLWLNISPGKDVNADT ILHYHQELPKYL RGFHKCSRED AIHLAGLIYKAQFNNDRSQLAS VPKILRELVPENLTRLMSSEEW KKSILLAYDKHKDKTVEEAKV AFLKWICRWPT\FGSAFF/EGEG KPCPTGPPTQAASAQSPSRPS VNQHTSWQTSEPSYPDVILIAIN RHGVLLIHPKTKDLLTTPFTK ISSWSSGSTYFHMALGSLGRGS RLLSETSLGYKMDDLTSYVQ QLLSAMNKQRGSKAPALAST

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9923	40291	A	9984	428	2502	VSKEIVYNKLLPYAERLDAESD LQLAQIKCNLGRAVQLQELWP GGLFWTRKLS/TRAGPLALSSLE LSPSGDPRVVTEPVKYSSRPPCH FPTGLPGSLPSLYVLRICFSRSV RVVVFPPGGPWVAQGPRPRGR ETWGFTMLLRYIRLYGRKFSKE DHVLFIKLLYELVSIPKLEISMM QGFARLLINLLKYFPADATAEM LEEWRPLMCPFDVTMQKAITY FEIFLPTSLPPELHHKGFKLWFD ELIGLWVSVQNLPQWEGQLVN LFARLATDNIGYIDWDPYVPKG GPSKLVQKHLAGLFNSITSFYH PSNNGRWLNKLMKLLQRLPNS VVRRLHRERYKKPSWLTPVPDS HKLTDQDVTDFVQCIIQPVLLA MFSKTGSLEAAQALQNLALMR PELVIPPVLERTYPALETLTEPH QLTATLSCVIGVARSLVSGGRW FPEGPTHMLPLLMRALPGVDPN DFSKCMITFQFIATFSTLVPLVD CSSVLQERNDLTEVERELCSAT AEFEDFVLQFMDRCFGLIESSTL EQTREETETEKMTHELSLVELG LSSTFSTILTQCSKEIFMVALQK VFNFSTSHIFETRVAGRMVADM CRAAVKDWGKPGDLWNLGIQ WHVPSSEEVSAFYLLDSFLQP ELVKLQHCGDGKLEMSRDDIL QSLTIVHNCLIGSGNLLPPLKGE
9924	40292	A	9985	2	5396	AESDLQLAQIKCNLGRAVQLQE LWPGGLFWTRKLSTYIRLYGR KFSKEDHVLFIKLLYELVSIPKL EISMMQGFARLLINLLKKKELL SRADLELPWRPLYDMVERILYS KTEHLGLNWFPSVENILKTLV KSCRPFAPADATAEMLEEWRP LMCPFDVTMQKAITYFEIFLPTS LPPELHHKGFKLWFDDELIGLWV SVQNLPQWEGQLVNLFARLAT DNIGYIDWDPYVPKIFTRILRSL NLPVGSSQVLVPR
9925	40293	A	9986	1	477	VREFPGRFRGCCGALRPYKR LVDNIFPEDP/GYVCIAMEALDQ LLMACHCQSINLFVESFLKMVA KLESEKSNLQILGTNSFVKFA NIEEDTPSYHRSYDFVSRFSEM CHSSHDDLEIKTKIRMSGIKSLQ GVVRKTVNDELQANIWDPQH

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9926	40294	A	9987	1	2371	AGGARLRPARGRPPRLPPRPG PCRPPVPAPT VNERRAPPRAG WERRSDAGLSRGARPAEMYGV CGCCGALRPRYKRLVDNIFPED PEDGLVKTNMEKLT FYALSAPE KLDRIGAYLSERLIRDVGRHRY GYVCIAMEALDQLLMACHCQS INLFVESFLKMVAKLLESEKPN LQILGTNSFVKFANIEEDTPSYH RSYDFFVSRFSEMCHSSHDDLEI KTKIRMSGIKGLQGVRKTVN DELQANIWDPQHMDKIVPSLLF NLQHVEEAESRSPSLQAPEKE KESPAELAERCLRELLGRAAFG NIKNAIKPVLIHLDNHSLWEPK VFAIRCFKIIMYSIQPQSHSLVIQ QLLGHL DANSRSAATVRAGIVE VLSEAAVIAATGSVGPTVLEMF N\TLLRQLRLSIDYALTGSYDGA VSLGTKIIEHEERM FQEAVIKT VGSFASTLPTYQRSEVILFIMSK VPRPSLHQAVDTGRTGENRNR LTQIMLLKSLQVSTGFQCNNM MSALPSNFLDRLLSTALMEDAE IRLFVLEILISFIDRHGNRHKFSTI STLSDISVLKLVKDCSRQDTV FMKKHSQQLYRHIYLSCKEETN VQKHYEALYGLLALISIELANE EVVVDLIRLVLA VQDVAQVNE ENLPVYNRCALYALGAAYLNLI SQLTTVPAFCQHIIHEVIETRKKE APYMLPEDVFVERPRLSQNLDG
9927	40295	A	9988	1	662	IPGSTISWSPAAARGLSVCRCR LHPASAMDLFGDLPEPERSRP AAGKEAQKGPLLFDDLPPASST DSG/SSLQALPGSGGPLLFDDL PASSGDSGLATSISQMVKTEG KGAKRKTSEEEKNGSEELVEK KVCKASSVIFGLKGYVAERKGE REEMQDAHVILNDITEECRPPSS LITRVSYFAVFDGHGGIRASKF AAQNLHQNLIRKFPKGDVISVE

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9928	40296	A	9989	3	1145	KEAQKGPLLFDLLPPASSTDSA VAALGTTTPSPVTLWFLQTRRGS KIWRNSLDYQSKVGAEPWCHE RQKADRFLGKRGRVPASSVIF GL\KGYVAERKGEREEMQDAH VILNDITECRPPSSLITRVSYFA VFDGHGGIRASKFAAQNLHQ LVRKFPKGDVIS\VEKTVKRCLL DTFKHTDEEFLKQASSQKPAW KDGSTATCVLAVDNILYIANLG DSRAILCRYNEESQKHAALSLS KEHNPTQYEERMRIQKAGGNV RDGRVLGVLEVSRSIGDGQYK RCGCHLCAPTSRR\QLTP\NDR FI/LVWPCDGLF\KVFTPEEAVN FIL\SCLEDEKIQTREGKSAADV RLRSPATRLANKAVAAGARP DNVTV\MVVRIGH
9929	40297	A	9990	2	419	
9930	40298	A	9991	2	1842	CLRLIAAAPPI/AIEPATTSSLALF LLLQRDQSSRTRGLPEEKKEVT MDTSENRPENDVPEPPMPIADQ VSNDDRPEGSVEDEEKKESSLP KSFKRKISVVSATKGVPAAGNSD TEGGQPGRKRRWGASTATTQK KPSISITTESLKLIPDIKPLAGQE AVVDLHADDSRISEDETERNGD DGTHDKGLKICRTVTQVVP GQENGQREEEEEKEPEAEPV PPQVSVEVALPPAEHEVKKVT LGDTLTRRSISQKSGVSITIDD PVRTAQVPSPPRGKISNIVHISN LVRPFTLGQLKELLGRTGTLVE EAFWIDKIKSHCFVTYSTVEEA VATRTALHGKWPQSNPKFLC ADYAEQDELDYHRGLLVDRPS ETKTEEQGIPRPLHPPPPPVQPP QHPRAEQREQERAVREQWAER EREMERRERTRSERWDRDKV REGPRSRSRDRRRKERAKSK EKKSEKKEKAQEEPPAKLLDDL FRKTKAAPCIYWLPLTDSQIVQ KEAERAERAKEREKRRKEQEE EEQKEREKEAERERNRQLEREK RREHSRERDRERERERERDRGD RDRDRERDRERGRERDRRDTK RHSRSRSRSTPVRDRGGRR
9931	40299	A	9992	1400	2959	
9932	40300	C	9993	169	430	

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9933	40301	A	9994	2	199	STSR/KMTELEEVTLNGKPLQA LRVTDLKAALQRLAKSGQK SALVKRLKGVRSSRCWVGGE RTR
9934	40302	A	9995	1	4033	MWRRKHPRTSGGTRGVLSGNR GVEYSGRGLGTFEGRWRKL PKMPEAVGTDPTSRKMAELEE VTLDGKPLQALRVTDLKAAL QRLAKSGQKSALVKRLKGAL MLNLQKHSTPHAAFQPNQIG EEMSQNSFIKQYLEKQQELLRQ RLEREAREAAELEEASAESEDE MIHPEGVASLLPPDFQSSLERPE LELSRHSPRKSSSISEEKGDSDD EKPRKGERRSSRVQARAAKLS EGSQPAEEEEEDQETP
9935	40303	A	9996	3	6305	ELEEVTLDGKPLQALRVTDLK AALEQRLAKSGQKSALVKRL KGALMLNLQKHSAPHAAFQP NSQIGEEMSQNSFIKQYLEKQQ ELLSSRLEREAREAAELEGKSS SISEEKGDSDDDKPRKGERRSS RVQARAALAEGSQPAEEEE DQETPSRNLRVRADNLKTEEE EEEEEEEEEDDEEEEGDDEGQK SREAPILKEFKEEGEEIPRVKPE EMMDERPKTRSQQEVLERGG RFTRSQEEARKSHL
9936	40304	B	9997	99	332	
9937	40305	A	9998	3	236	YIFTILNTLQGVFILLFGCLMDR KIQEALRKRFCAQAPS/SHHLP GELLPSDPQLCIQEHVRRHSMA LLRGHGSQKL
9938	40306	B	9999	1	3099	
9939	40307	A	10000	355	858	RASSAAWGSPSRKTSASSAFSSS CWSSS*QS*SYSSSSLSHGQGE RERQEGPEGRPAAVPHREQRG AEERLEHHPG*DAMLWCH*LH RLVPSAGGEHGSRPLLHGELPG LRAQRHHAFVENGLL*KGEDV VR*Q*ARAGHGGDVHPHADP GHGLLDPLPAHPPDW

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9940	40308	A	10001	3	1478	GRALTSRRRACQGASEAAGSPA QVTTSTGHHQHRSHQHRSPPA QVTTSTGHHQHRSPAQATTSTG HHQHRPPPAQVTTSTGHHQHR SPAQATTSTGHHQHRSHVHTGH HQHRS/HTSTGHHQHRSPAQAT TSTGHHQHRPPPAQVTTSTGHH QH\GHQHRPPPA/HGHHQHSSPP A/HGHHQHRPPPA/HGHHQH\G HHQHSSPPA/HGHHQHR\HHQ\P GHHQHRSP/HSTAHHQH\GHHQ HSSPPA/HGHHQH\HHQ\GHHQ SSPYQH\GHHQHRPPPA/HGHH QHRSH\HTAHHQHRSHQH\GHH Q\PGHHQHRSPAQATTSTGHTS TGHHQHRP/HTSTGHH\HTGHH QHRSHQHRSPPAQATTSTAHH QHSS/HTSTGHHQHRSP/HSTGH HQHSSPPA/HGHHQHSSPPAQA TTSTGHHQHRESPAVAAA'ADPS ALSAARRGSPGPAAPQSRGTR GGGAPAKWWGSALGLGWAGR ARARLGRPLRPILGAMPAPRT PRERREHGEVE
9941	40309	A	10002	5	341	PPRRRGQKRRQK/REEGERERG ERKRPRDRKEERKG/RRTKRQG GTETRESRPNGDGPQAKRKKQ TAGQREEREEGEQRSSRQRGAA ERERGRETTHTICLLVPCWWEP NGRLCL
9942	40310	A	10003	1	582	MLAQRGGRSVVQCIASVSKLSV TQSFVTLIMDEEALGNCGGSS GSQTCEKAVCIHNLPLTSHAF QSGFPPHQSPASLPKMVSDAQ TARLSLESMRELGFHISESAGFP APVSGYEHSNPSRPGVMPSGTS HWKQRSQKVEDNRTEMVKGIQ GDT\VKHQHLPRLINGN*LAYM TAKSRTWLPVQQDPGPQTI
9943	40311	A	10004	1	332	MEYYAAIKNDEFMSFVGTWM KLETIILSKLSQGQKTKHHIFSLI EAQAQVSPPPPYPAPQELTQPL LQQPRAPEAPAAQ/PPGSLLTAT VRLSASPGPLIFDQLLPRCGF

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9944	40312	A	10005	1	1108	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLMDEEALGNCGGSS GSQTCEKAVCIHNLPLTSHAF QSGFPPHQSPASLPKMVSDAQ TARLSLESMRELGFHISESAGFP APVSGYEHNSPSLSTTNLSGFSR RRQPPVSPLTSPGPEAHQGFSR QLSSTSPLAPYPTSQMVSSDRS QLSFLPTEAQAQVSPPPYPAPQ ELTQPLLQQPRAPEAPAQQPQA ASSLPQSDFQLLPAQGSSLTNFF PDVGFDQQSMRPGPCLSSGTAS GATGSRRELQDSFHLRPSYSNC GSLPNTILPEDSSTSLFKDLNSA LAGLPEVSLDVTDFPLEEELQI EPLSLDGR\HMLSDSSMGLLDP SVEETFRADRL
9945	40313	A	10006	1	691	MRERARPPRGCLAPPLPPG/E/S GADGQPAPRGRTAGG/ELAA AGCGARAAMHRGAVPSAEPVP ASP/DGRWQWAGEGRPCNAAG GSRT/GAGCGWPAPAGWGPAP SSAASCPASGGATHRGASAAPG GGGGGRAP/GPDALEQRRAGAP PNAPGTPGSPEESSLRMRRESA AGAPAVGMAAATSLGQALGPR VPRSPYRTAVVLSSRSAGFYFSL ITLARYTLGCLSHSDITLFEC
9946	40314	A	10007	1	1065	MADKRAGTPEAAARPPGLAR EGDARTVPAARAREAGGRGSL HPAAGPGTAFPSPGRGEAATA TTPSLENGRVRDEAPETCGAEG LGTRAGASEKAEDANKEEGAIF KKEPAEEVEKQQEGEEKQEVA AEAQEGPR/PPEPWCPN/C/MDP LEAIQWEAEAVSAQADRAYLP LERRFGRMHRLYLARRSFIIQNI PGFWVTAFLNHPQLSAMISPRD EDMLCYLMNLEVRELRRHSRTG CKFKFRFWSNPYFQNKVIVKEY ECRASGRVVSIAIRIRWHWGQE PPALVHRNRDTRVSFFSWFSQH SLPEADRVAQIIKDDLWPNPQLQ YYLLGDRPCRARGLARWPTE TPSRPYGFQSG
9947	40315	A	10008	2	433	
9948	40316	A	10009	125	289	TRKSGCLKIRFHVFLFLYRNPG MDVADAYVTFVRHSQDVLRD KVNE\EMY\ERLF
9949	40317	A	10010	1	774	
9950	40318	A	10011	1	1749	

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9951	40319	A	10012	1	1175	MFASCYMRNIPKRVIIEFGTCLW RTCKNCLSSLEFKMPFPPHPSV TYNLKQERCRLSLDASLSCMLS IEDSQIPNTRLECCCKGLSRCTSV ASTCPLVTFSCFLFSPKMEQYS KDDSEKTLKGWFSPGQVFVLD EYCARNGVRGCHRHLCYLRDL LERAENGAMIDPTLLHYSFAFC ASHVHGNSQQMHVYLSGLPPN TDPEGSKTPSPPEPEAKKDTKK ESKKRKDSKTQANQELKRSLS NLP/ICEPTQ/W*TFPKYQIYQLT SL*ASHKCLLFRHRHGWLLY/ID ADNGSGTSEDLFWKLDALQTFI RDLHWPEEEFGKHLEQRLKLM ASDMIESCVRKTR\IAFEVKLQK TSSIQQIFRVPQFNMAPCFNVM GLMAKGSIQPK\CSMEMGQE
9952	40320	A	10013	1	3951	MLDPSSEEESEIVEEEESGKEV LGSAPSGARLSPSRTSEGSAGSA GLGGGGAGAGAGVAGGGGGG SGASSGGGAGGLQPSSRAGGG RPSSSPSPSVVSEKEKEELERLQK EEEERKKRLQLYVFMRCIAYP FNAKQPTDMARRQQKISKQQL QTVKDRFQAFLNGETQIMADE AFMNAVQSYEVLKSDRVAR MVQSGGCSANDSREVFKKHIE KRVRLPEIDGLSKETVLSSWM AKFDAIYRGEEDPRKQQ
9953	40321	A	10014	1	457	VAAVAATALKGGGARNARVL RGIFAGATA\NKASHNRTRALQ N/HTASPEGKEEP\ELIPGTGKY IPQKRGAKNPHENCGNLPWAIG FPCGILLFDPSPKR/RKLDKDRV\ KQMKARQNMVRSNTG\EYES\Q RFRASSQS\APSP\DVGSGVSGV QT
9954	40322	A	10015	464	863	TPAAVESSPSIPLAPRLLYTG*PL QP/GPRGQGCVPRIVPCCPKP/V CAPRPPWPRRSQRLRSAGLSPL CAAAAPPVPAGSHGTPGRVWA PLSNSACCTCCRHPS*LHPGTLT PGRWQAR*GPALPRGPLGSP
9955	40323	A	10016	1	300	PKILVGASKVLL\SAHKLFIG DTLSRQAK\AVDVASRVTHYSN LL\CDFL\QGIVATTKAAALQYP IAFPGPKDMVERVKELGHS\TQ QFRRVLGQLAAA

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9956	40324	A	10017	3	291	ARI/VFAIISFYFMPCCPLTA/SSF YLLSGLLDAFDGHALALLIKFC VRGSESHKMIDLSGNP/VLRIYY TS/RVGSVGLFR/MGLWVTAPIA LLKSLISVIT
9957	40325	A	10018	1	344	VLIRARLSDNPAVRGSESHKMI DLFCYPVLRIYYTSRPAFLTLCA GNELFYCLLYLFHFSEGPLVGS VGLFRMGLWVTAPIALLKSLIS VIHLITAARNMA\ALGRQQDRA KKK
9958	40326	A	10019	1	469	MVRSCFVDDRRKRCNFRQAS EVLNEYFYSHVSNPYHSEEAKE ELAKKCGITVSQVSNRFGNKKI RYKKNIGEFQEEANIYAVKTAV SVTQGGHSSTS\SPTPSCAGCG GSFNISGSGDMFLGMPGLNGDS YSASQALESGDASPAQSEMPK MGT
9959	40327	A	10020	232	1728	PGGGRGGAGRGPQGPPAMDE RLLGPPPPGGGRGGLGLVSGEP GGPGEPPGGGDPGGGSGGVPG GRGKQDIGDILQQIMTITDQSLD EAQGQKTPPLNCP\RKKPVLF GRGEIKEKTGLSIRSSQEEEPVD PQLMRLDNMLLAEGVAGPEKG GGSAAAAAAAAASGGGVSPDN SIEHSDYRSKLAQIRHIYHSELE KYEQACNEFTTHVMNLLREQS RTRPVAPKEMERMVSIHRKFS AIQMQLKQSTCEAMMLRSRF LDARRKRRNFSRQATEVLNEYF YSHLSNPYPSEEAKEELAKKCG ITVSQVSNRFGNKKIRYKKNIG KFQEEANIYAVKTAVSVTQGG HSSTSPTPPSSAGSGGSFNISGS GDMFLGMPGLNGDSYSASQ/V WESLRHSMGARGVIGG*TFGG RARCYSR\EMRANGSWQEAV TPSSVTSPTEGPGSVHSDTSNLI LPLRVTGVGALTRLEEDAGFQ RTNPNTGEAQDREGPMGSSPP
9960	40328	A	10021	337	830	IPRLPGSIQLSFVGAFGQTSKSLF FLCVFILLLFQFFLCSVYVPMCT E/RRINIPGPCGGMCLSVKGRC EPVLKEFGFAWPESLNCSKFPP QNDHNHMCMEGPGDEEVPLPH KTPIQPGEECHSVGTNSDQYIW VKRSLNCVLKC/GYDACLYSRS AQEVT\DIWMA

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9961	40329	A	10022	1	1561	MAWRGAGPSVPGAPGGVGLSL GLLLQLLLLLGPARGFGDEEER RCDPIRISM CQNLGYNVTKMPN LVGHELQTD AELQLTTFTPLIQ YGCSSQLQFFLC SGYVPMGTEK INIPIGPCGGMCLSVKRR CETPS LK\EFGFA\WP\ESLNC SK/YPHP QND\HNPHVPWKGP GDEEVPLP HKTPIQP\GEECHSVGTNSDQYI WVKRSLNCVLKCGYDAGLYSR SAKEFTDIWMAVWASLCFISTA FTVLTF LIDSCRFSYPERPIIFLS MCYNIYSIAIYIVRLTVGRERISC DFEEAAEPVLIQEGLKNTGCAII FLLMYFFGMASSIWWVILT LT WFLAAGLKWGHEA IEMHSSYF HIAAWAIPPVK TIVILIMRLVDA DELTGLCYVGNQNL DALTGFV VAPLFTYL VIGTLFIAAGLVALF KIRSNLQKDGTKTDKLERLMV KIGVFSVLYTVPATCVIACYFY EISNWALFRYSADDSNMAVEM LKIFMSLLVGITSGMWIWSAKT LHTWQKCSNRLVNYT
9962	40330	A	10023	496	664	FYKAVPSIHQLDVPQTHQP*ST GLVQKVYSRSKHVSL*PKYYY VQLVPKLDHLIFY
9963	40331	A	10024	1	954	
9964	40332	A	10025	127	481	GRTREATWRVYSVAVGVSR SQ IIRIAREFADNADKTHGRSMIIV GAGLNHWYH LDMNYRGLINM LIFCGCVGQSGG/GWAHYVGQ EKLRPQTGWQPGVCLDWQRPA RHMNSTSYFLLVP
9965	40333	B	10026	161	234	
9966	40334	A	10027	3	199	DDFLDLAESP NASDTESSDEIPL KAGPGTLIMATGVQDFNRTEFD RLNAIKGHLEI\ALLEKHFFT
9967	40335	A	10028	37	455	LRTHLLPRLSQSSPVSSLP RALL RPPGQLELWAVPAGPGPLLA A DASQNL TQHMEALASQSRGRV DMSDGH L AVLSPIEEELRKLRE ETNAEMLRQELDRERQRRMEL EQKVQEVLKARTEEQMAQQPP KCQAQASNGA

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9968	40336	A	10029	1	1721	DKIRFRGHRDDFLDLAESPNA SDTECSDEIPLKVPRTSPRDSEE LRDPAGPGTLIMATGVQDFNRT EFDRLNEIKGHLEIALLEKHFLQ EELRKLREETNAEMLRQELDRE RQRRMELEQKVQEVVKARTEE QMAQQPPKGQAQASNGAERRS QGLSSRLQKWFYERFGEYVED FRFQPEENTVETEEPLSARRLTE NMRRLKRGAKPVTNFVKNLSA LSDWYSVYTSIAIAFTVYMNAY WHGWAIPFLFLAILRLSLNYLI ARGWRIQWSIVPEVSEPPPK EDLTVSEKFQLVLDVAQKAQN LFGKMADILEKIKNLFMWVQP EITQKLYVALWAAFLASCFFPY RLVGLAVGLYAGIKFFLIDFIFK RCPRLRKYDTPYIIWRSPLTDP QLKERSSAAVSRRLQTTSSRSY VPSAPAGLGKEEDAGRFBSTKK GNFHEIFNLTENERPLAVCENG WRCCLINRDRKMPTDYIRNGV LYVTENYLCFESSKSGSSKRNK VIKLVDTIDIQKYKVLVLPVSGG MGIAVSTPSTQKPLVFGAMVH RDEAFETILSQYIKITSAAASGG
9969	40337	A	10030	18	573	
9970	40338	C	10031	71	205	
9971	40339	C	10032	190	243	
9972	40340	A	10033	18	283	
9973	40341	A	10034	1	190	
9974	40342	A	10035	1	135	
9975	40343	C	10036	90	137	
9976	40344	B	10037	272	560	
9977	40345	A	10038	3	422	
9978	40346	A	10039	205	1090	
9979	40347	A	10040	1	2142	

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9980	40348	A	10041	15	1524	FPGRRFRAEGERTECAEPPRDEP PADGALKRAEELKTQANDYFK AKDYENAIKFYSQAIELNPSNAI YYGNRSLVYLRTECYGYSL*D ATRAIELDKKYIMGYRRRAVAS NMALGKFRAALRDYETVVKV KPHDKDAKMKYQECNK\IVKP KAFERAIAGDEHKRSVVDSLDI ESMTIEDEYS*PKLEDGKVTISF MKELMQWYKDQKKLHRKCAY QILVQVKEVLSKSLSTLVETTLK ETEKITVCGDTHGQFYDLLNIFE LNLGPSETNPYIFNGDFVDRGSF SVEVILTLFGFKLLYPDHFLLR GNH\ETDNMNQIYGFEGEVKA KYTAQMYELFSEVFEWLPLAQ CINGKVLIMHGGLFSEDGVTLD DIRKIERNRQPPDSGPMC\DLLW SDPQPQNGRSISKRGVTCQFGP DVTKAFLEENNLDYIIRSHEVK AEGYEVAHGGRCVTVFSAPNY CDQMGNKAS\YIHLQGS\DLRP\ QFHQF\TAVP\HPNVK\PMAYAN
9981	40349	A	10042	94	188	VIEHLVSQDGLDFL/NLVICPPR PPKVLGLQA
9982	40350	A	10043	419	495	EPTNENSPIALSR*VNSQKISMK AV
9983	40351	A	10044	1	265	EMESRSIA\RMESGSGSISAHCKL RLPGSHHSPASVSRVAGTTGTC HHARLIFLYF/LLETGFHCVSHD GLHLL/NLVICPPRPPKVLGLQA
9984	40352	A	10045	3	706	ADAWAWPHC/CTVLL*CLGFA GVLFGWPSLVFVFNEDYFKD LCGPDAGPIGNATGQADCKAQ DERFSLIFTLGSMNNFMTFPTG YIFDRFKTTVARLIAIFFYTTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIILLYEK GISLR/VLLHLHLCLQYLACSTH FPPDAPGAHPIPTAPQLQLWPV PWEWHHKGREGNS

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9985	40353	A	10046	1	1413	MKRGNGSRRRRLSENNGVF HIESFAQHPKDEKSRKLLGPIEH WTFVVEKGKGKPEETGTVSMV LEDGEVEADIKQGSVVGCCNV PPDAARERAEKAYMDGEQPTLI LLLWDLKKQIPVHKGTHSVGR HQTELLPNNGGGVVRFFYTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIHKLLYEK GISLRASFIFISVCSTWHVARTF LLMPRGHIPYPLPPNYSYGLCP GNGTTKEEKETAHENRELQSK EFLSAKEVSTYTNAFAFTQFGV LCAPWNGLLMDRLKQKYQKE ARKTGSSTLAVALCSTVPSLAL TSLCLGFCALCASVPILPLQYLT FILQVISRSFLYGSN\GRFLTAF PSEHFGKLFGLVMALSAVVVSL LQFPIFTLIKSLQNDPF\YVNV MFMLAILLTFLPPLSGISGMPYL
9986	40354	B	10047	316	395	
9987	40355	A	10048	1	1614	RMQQQAVMHYMQQQQQQQQ QQLGGPPTPAINTPVHFQSPPPV PGEVLKVG PVLACPPPCPH*SQ PPLEPLPYLSETYGNKFAAHISP AQ\ALRNPHQPPPQGCELDTC PPPLATVLP/ISPMAMHLHIGSNPE REVSEELASGHAACRARAHC ASETMPNTVLLARVGWVCKGS REGGTHCGSEPGESVTSSSCP ADLTQKRELGTASLYPCAFY PTPPSFSPSLPAAPLPASLFLVLT WAG*KANDL*/VRFLRGRVMG LGGQQLT\RLSALLQKSRELEN HSRRLEMTNKQLWLRIVWS* TWTSVLTLTLNLAPGPKGQYFR MFCFGNKQSSASLSNTYQLEVL FCETLILAPTLLAPSSLMAHLEL ALKAIVTLKVPHTSVQWAWP MQAHSTSTLTSLAQQVVKQEL PSEEGPGEALMLGAEVPDPEPL PALPPQAPLPLPTQPPSPFHHLD FSHLSFSGGREDEGPPGYPEPLA PGHGSFPFSLSKKDLMLLDD SLLPLASDPLLSTMSPEASKASS RRSSFSMEEGDVL

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9988	40356	A	10049	1	1651	GGVTAGARAPARGSVTAEEAA RAGRGSGRGADGGREGRTGRA SLVARGRSRPGAGGGHSLRAR HPNLRQVAGA/GGARAADRLT FRAREPAPAATMASRIGLRMQL MREQAQQEEQRRERMQQQAVM HYMQQQQQQQQQQLGGPPTP AINTPVHFQSPPPVPGEV LKVQS YLENPTS YHLQSQHQKVREY LSETYGNKFAAAHISPAQ\ALR NPHQPPPQGCELDTCCPPPLAT VLPISPMAM L HIGSNPERELDD VIDNIMRL\TMSLGYINPEMQM PNTVLLARLPLSSSHLNVYSSDP QVTASLVGVTS SSCPADLTQKR ELTDAESRALAKERQKKDNHN LIERRRRFNINDRIKELGMLIPK ANDLDVRWNKG TILKASVDYI RRMQKDLQKSRELENHSRRLE MTNKQLWLRIQEL EMQARVHG LPTTSPSGMNM AELAQVV\KQ ELPSEEGPGEALMLGA\EGP\DP EPLPALHRQAPLPLPTQAPSPFH S/HWDFSHSL\SFGG\RVDDWSP GLPRTPGAGAWLPQPQVQEGS GPHAPGRLTATAGL
9989	40357	A	10050	2	76	TPLAPPPKPVRRRLKSRR*IKAR S
9990	40358	A	10051	3	206	
9991	40359	A	10052	1	492	

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9992	40360	A	10053	2	2395	KQTELRRSGSRDVTGALLVAA AVASEAVGSLRVAEGGPNTLLL QVLR\SW\PWCNKATQTMEERK VKRRSPKSFSAHCTQVVNVQK KMSIPV\SKS\TGFSNPASQVNFT SRPKVKKEVMK\EKTKPQGLEE GQRHSSQLPIQHSFLT\DVSRCS RKMERGLLSL\NDFHSWKTFK HFGN\ECS\EQMEHVSIGELQEK LARLNLELYGELEELPEDKRKT ASDS\NLDRL\SDCREMIPAFRT FLKRHDKTIVTKMLSLPELLLY PSRRFEEYLNLLYAVRLHTPAE HVDRGDLTTAIDQIKKYGYID QTLSEVNRYLIRVQDVAQLHCC DEEISFSLSVACRSVDSASPESL PEMQNSQATLALLNQNLFHNKI TRL\YEHIDLSLFLFNDALLVSS RGTSHTPFERTSKTTYQFIASVA LHRLLIENIPDSKYVKNAFILQG PKYKWICATEIEDDKFLWLSVL RNAIKSSMEKACGLVFTGQFMF DTMGMTNILNNQDTAALADG LMELSKEDSKCGKKIKDVEGN VIPTKCDPKTTFSLFMKERNVV EDNSWDTKSRLSKNDLNFEALI NLERILQKDSAERARVVRELL QSERKYVQILEIVRDVYVAPLK AALSSNRAILSAANIQIIFCDILQ ILSLNRQFLDNLRDLQEWGPA HCVGEIVTKFGSQLNTYTNNFN NYPVILKTIEKQWETFSSSSSS
9993	40361	A	10054	2	296	
9994	40362	A	10055	2	369	
9995	40363	B	10056	82	2483	
9996	40364	A	10057	2	3343	YDVVLDAIDTMQRVAWHIND MKRKHEHAVRLQEIQSLLTNW KGPDLTSYGELVLEGTFRIQRA KNERTLFLFDKLLLITKKRDDT FTYKAHILCGNMLLVEVIPKEP LSFSVFHYKNPKLQHTVQAKSQ QDKRLWVLHLKRLILENHAAKI PAKAKQAILEMDAIHHPGFCYS PEGGTKALFGSKEGSAPYRLRR KSEPSSRSHKVLKTSETAQDIQ KVSREEGSPQLSSARPSAQRNS QPSSSTMISVLRAGG

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9997	40365	A	10058	32	483	LKGHADAVLAAGTEAVKCHLL LGRHLLRLMASSGIHHKIVN*R QYAKFSHG*IQKF**WQHRQQF RGKETEMASAVDLPVTLTETEA NFPPEYEKFWKTVENNPQDFTG WVYLLQYVEQENHLMAARKA FDRFFIHYPCYGYWKKYADL
9998	40366	A	10059	1	1090	MRQKRKEEKELFHNDCEKKE KNSWERMRTGTTEKMASESET PTGAISQYKERMPSTVTHSPEIM DLSELRPFSKPEIALTEALRLLA DED/WDKQLHALEQLLASCYS GTRHTTSSFHCGHQGMWWHPE AWRC/LATAEPQREPGKSTISSH SSLWN*Q/LSHKLQSVPLKV KNLRSGVSRAAVCLSDLFTYL KKSMDQELDTTVKVLLHKAGE SNTFIREDVDKALRAMVNNVT PARAVVSLINGGQSHLHIAVRR CTAQLSDVLEFMEPERILSAA KDMAERILPAAAKFAQDSSQET RYYGRKMLFFMMCHPNFEKM LEKYVPSKDLPIYKDSVRNLQQ KVCGKSLFYKQLYKQSLFLHP
9999	40367	A	10060	36	203	
10000	40368	A	10061	1	798	MKFQYKEDHPFEYRKKEGEKI RKKYPPDRVPVIVEKAPKAR/RA *SGQEEVPSAL*PYCCLP/DGAG LGTCS/HAMPEPPTHSMGTCAA RASPTSTTPCSTAPSPIDRE\EQT TQGLRNASARRGTGRQLHLQ/S PVWDPLGEASWAPESSGNVESI SSSGIVNIPSTLCLAQGFSRFVN APIDTLYLAALVGPWRTFMSSS GIVNTPIGTLYLAQGMVHYHKS PFPTCLVQMSKIESLPKEKGAQ GVAAGLPSSLAPTCPPDPMSK LHNN
10001	40369	A	10062	164	605	ALLKQHLRTVHRSAPPPIRGHCC VSSSWT*G/AGKLSLEHTEEPSD VPSHLLYRWSISSAITEVFQALA SS\IPRSQ*MSTPRR\NESTRHSP GPSIEEVKECMQDDN*YLQGTS YAPAGSQSYSAKLCFQVLKRN TCPPEKPNPASER

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10002	40370	A	10063	3	2480	RPITGAEIVAIINSLPTKKSPGLD GFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMIISIDAEKAFDKIQQ/R LHAKNS/RIN*VLM/ETYFKIIRA IYDKPIANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWNIPCSWVGRINI VKMAILPKVIYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRAHIA KSILSQKNKAGGITLPDFKLYY KATITKTAWYWYQNRDIDQW NRTEPSEITPHTYNCLIFDKPEK NKKWKGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKLEENLGITIQNI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFATYSSDKGLISRIY NELNQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKHKMKCS SSLAIEMQIKTTMRYHLTPVR MAIIKSGNNRCWRGCGEIGTL LHCWWDCCLVQPLWKS V WRF
10003	40371	A	10064	317	582	STVCCFLLRFIGGGFRHIPLSVD LWIHYIKILKETLDPGDPETNNT IRGYVEH*Y*NVFYDINNYS DV DNRAHES*AGSLTSIPL LKK
10004	40372	A	10065	41	434	GDLQPTAALWEPLSGLAKAGA RSLSLQGGVGGEARARTRAAR GACGPAAAPGGHGLGGHALGA AGR/RLALGRLGTCSLPCLSLP PSPWAPVPPEPPR*VPPHAPGRP VPSATQRLRSAGAQRRTGRQL
10005	40373	A	10066	67	459	LRDCKYTHRHCVSSSRFINTPIN TLCLAQGL*VHQSTLCI*LLWV GGLGGNFCVQYSVSN*SDGDV ENLCI*LRDCKCTNQHPVKTGH FGSTNQQDVGWGQIKRIKAGLP EPASGNSLGSPSTLWELCSLQ

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10006	40374	A	10067	2481	2882	IPQGNRYRVIARNAKTQRGGNLT LTKPS/GIGRRGENSSISSWQRQ QKGGKETGSQRKRQRGRDKKL ERKRDRHRSQREGKKERKRQR RSQRERWK**RKN SVPIPLKAR VNFSLPTQGNSLLDLNPYLPLK QLKK
10007	40375	B	10068	52	5199	
10008	40376	A	10069	1510	2454	
10009	40377	B	10070	97	3414	
10010	40378	A	10071	164	620	PPTGCGTGPIGCSGPGTGVPVP VAP\PFPEGARTQPGSAGA\PG ARGLRRAETLVALGAVGGLP TPPPPPPPAPQSQAPGGPEAQPF GSRVCVLASCAHRPRPAPSAP PAPPAPPESTVRPAPTRPGESS YSSISHAFTATNFPFGTA
10011	40379	A	10072	1	513	MATLAGEGRPAGWVPWISLLA VGVLIWKLWPAPPIGGELQFA FVCFLGNVYEAFEHWKRLLN LLCRSEAAMKK/HATRLWINLI SILHHQLGEIPADFFVDIVSQHN FLTSTLQVFFSSACSIAVDATLR KKA EK FQAHLTKKFRWDFAE PEDCAPVVEELPEGIEMG
10012	40380	A	10073	1	1642	MDYIRTDLTAAAPSPRRLGPPP PGEQPPSGSGHVRPPGARPPHR GGGRGGGGGDPAAAPPARGGGG GGKARPPGGGAAPCEPGCQCR APMVSVSSEHPLYNRVKTGQI ANCALPCHNPFFSQDERAFTVF WIGLWSVLCFVSTFATVSTFLID MERFKYPERPIIFLSACYLFVSV GYLVRLVAGHEKVACSGGAPG AGGAGGAGGAAAGAGAAGAG AGGPGRGEYEELGAVEQHVR YETTGPALCTVVFLVYFFGMA SSIWWVILSLTWFLAAGMKWG NEAIAGYSQYFHAAWLVPVS KSI AVLALSSVDGDPVAGICYV GNQSLDNLRGFVLAPLVYLFIG TMFLLAGFVSLFRIRSVIKQD GPTKTHKLEKLMIRLGLFTVLY TVPAVVVACL FYE QHNRPRW EATHNCPLRDLQPDQARRPD YAVFMLKYFMCLVVGITSGVW VWSGKTLESWRSLCTRCCWAS KGAAVGGGAGATAAGGGGGP GGGGGGPGGGGGPGGGGSL YSDVS\TGLTWRS GTASSVSY

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10013	40381	A	10074	3	475	HSSLNSVDKARALEADNGELE VNIRDWYQKQGPASRDYSHY YTTIQDLRDKILGATIENSRLV QIDNARLAADDFRTKFETEHAL RMSVEADINGLRRVLDELTLAR TDLEMHIEGLKEELAYLKKNHE EEISTLRGQVGGQVTV*VDSAP GTDL
10014	40382	A	10075	39	1323	NGMWSNWNPLIPQRWEEKFQS PSRRHGSSSRGVSLSSISGGYSGI LSGSNGLLAGNEKLTMHNLNN CLASYLDKVHALEAANSKLEF GLSVWVLDEVTARTDLEAQI KGLKEELAYLKKKHEEEINALR GQVGDQVHILSDRQSQYEIMA KQNWKDAEAWFTSWTEELNQ EVTGHIEQLQISRSEVTDLQCTL QGLEIELHSQSVKAPLEGTLA ETEACFGAQLVQIQALISSIEAQ LGDVRADGEWQNQEYQRLLE QEIATYRSLLEGQEDHYNNLST SKVQIPECTVSNVPVASVCLQT LEPHSLASNPGSSTYSVTFGQYI NLSVSPFLLLEATIAGAKKAAT GNNSTQFSPAERQLCIFTCPRT IPLTTASHAGSYGPKLVKYTSL RPLPMAAPTESNPALPSSRATA HRLLPAPGHFPSGL
10015	40383	B	10076	133	180	

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10016	40384	A	10077	1	2182	MSVDKAE LCGSLLTW LQTFHV PSPCASPQDLSSGLAVAYVLNQ IDPSWFNEAWLQGISDPGNW KLLKVSNLKMLRSLVEYSQDV LAHPVSEEHLPDVSLIGFSDPA ELGKLLQLVLGCAISCEKKQDH IQRIMTLEESVQHVVMEAIQEL MTKDT\PDLSLPETYGNFDSQS RRYYFLSEEAEEGDELQQRCLD LERQLMLLSEEKQSLAQENAGL RERMGRPEGEGTPGLTAKKLLL LQSQLEQLQEENFRLESGREDE RLRCAELEREVAEL\QHRNQAL TSLAQEAQALKDEMDLQRSS ERAGQLEATLTSCRRRLGELRE LRRQVRQLEERNAGHAERTRQ LEDELRRAGSLRAQLEAQRQ VQELLGQRQEEAMKAKEKWLFE CRNLEEKYESVTKEKERLLAER DSLREANEELRCAQLQPRGLTQ ADPSLDPTSTPVDNLAAEILPAE LRETLLRLS/LLENKRLCRQEEA DRERQE/EKLQRHLEDAN\RAR HG\LETQ\HRLNQQAAYSELRA QVEDLQKALQEQQGKTEDAISI LLKRKLEEHLQKLHEADLELQR KREYIEELEPPTDSSTA\RRIEEL QHNLQKKDADLRAMEERYRR YVDKARMVMQTMPEKQRPAA GAPPELHSLRTQLRERDVRIH LEMDFEKSRSQREQEEKLLISA WYNMGMALQ\QRAGE\EPAPA
10017	40385	A	10078	1	687	
10018	40386	A	10079	1	1104	
10019	40387	A	10080	1	677	MAAAGGGGGGAAAAGRAYSF KVVLLGEGCVGKTSVLRYCE NKFNDKHITTLQASFLTKKLN GGKRVNLAIWDTAGQERFHAL GPIYYRDSNGAILVYDITDEDSF QKVKNWVKELRKMLGN\ETCL CIVGNKIDLEKERHVS IQEAESY AESVGAKHYHTSAKQNGGIEE LFLDLCKRMIETAQVDERAKG NGSSQPGTARRGVQIIDDEPQA QTSGGGCCSSG
10020	40388	A	10081	1	1467	
10021	40389	A	10082	2	244	
10022	40390	A	10083	1	257	
10023	40391	A	10084	1	558	
10024	40392	B	10085	41	618	
10025	40393	A	10086	1	591	

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10026	40394	A	10087	128	851	KMEKEKGNDDGIPDQENSLDFS EHFNQLELLETHGHLIPTGTQSL WVGNSDEDEEQDDKNEEWYR LQEKKMEKDPSRLLLWAAEKN RLTTVRRLLEKATHVNTVRDE DEYTPLHRAAYSGHLDIVQELI AQGADVHAVTVDGWTPHSA CKWNNTRVASFLLQHDADINA QTKGLLTPHLAAGNRDSKDT LELLLMNRYVKPGLKNNLEET AFDIARRTSIYHYLFEIVEGCTN
10027	40395	A	10088	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDQEAVI DGRRKPEESRTTSHICRCRS
10028	40396	A	10089	2	461	
10029	40397	A	10090	2	749	
10030	40398	B	10091	1	1077	
10031	40399	A	10092	1	1114	MPQNSLEECALELGKKSQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGVFQTPYTAAQKVE LVAVIEVLTAFDMPVSMISDST YVVHSTQLTENAQLRLHTDEQ LMTLFSQLQTAVR\CFAVMGIP ASRKTDNVPGYTIQTLATFFSM WNIKHITGIPYNSQQAIVGRIN LSLKQRLQKQKEGNREYRTPQ MQLNLALLALIFLSLSKGQMLS AAEQHLQKPPAKTEAEQLIWW RDTKTRSWEIGKIITCGRGYAC VSPGQNQQPIWTPSRHLKPYHE PDAK\KRFREDPEDPPSCSHVKT DAEEDPNCHEQHPSNTAIHLRS DQEAVTDGRRKPEESGTTSHNE
10032	40400	A	10093	239	783	RRAPGTAPDAGPELRS\LHNLL GPACIFLRKGFAENRQPVQLRE AFREFDKDKDGYINCRDLGNC MRTMGYMPTEMELIELSQQIN MNLGGHVDFFDVELMGPKLL AETADMIGVKELR\DAFREFTD NGDGEISTSELREAMRKLLGHQ VGHRDIEEIIRDVDLNGDGRVD FEAPFPGSSN
10033	40401	A	10094	1	304	
10034	40402	A	10095	3	154	
10035	40403	B	10096	126	251	
10036	40404	B	10097	122	2916	

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10037	40405	A	10098	3	2433	LAELSSLSVLRLSHNSISHIAEG AFKGLRSLRVLDLDHNEISGTIE DTSGAFSGLDLSKLTFLGNKIK SVAKRAFSGLEGLEHLNLGGN AIRSVQFADFVKMKNLKEHIS SDSFLCDCQLKWLPWLIGRML QAFVTATCAHPESLKGQSIFSVP PESFVCDDFLKPQIITQPETTMA MVGKDIRFTCSAASSSSSPMTF AWKDNVLTNADMENFVHV HAQDGEVMEYTTILHLRQVTF GHEGRYQCVITNHFGSTYSHKA RLTVNVLPSTKTTPHDITIRTTT MARLECAATGHPNPQIAWQKD GGTDFPAARERRMHVMPDDD VFFITDVKIDDAGVYSCTAQNS AGSISANATLTVLETPSLVVPLE DRVVSVGETVALQCKATGNPP PRITWFKGDRPLSLTERHHLTP DNQLLVVQNVVAEDAGRYTCE MSNTLGTERAHSQLSVLPAAG CRKDGTTVGIFTIAVVSSIVLTS LVWVCIIYQTRKKSEEYSVTNT DETVPDPVPSYLSSQGTLSDR QETVVRTEGGPQANGHIESNGK ASVTVKQSSAVTVSLGAGGGL QVFTGQVPGIRWGKLGEVEGG VCPRDASHFPEPDTHSVACRQP KLCAGSAYHKPWKAMEKAE GTPGPHKMEHGGRRVVCSDCNT EVDCYSRGQAFHPQPVSRSQAQ PSAPNGPEPGGSDQEHSPHHQC
10038	40406	A	10099	1	164	
10039	40407	A	10100	368	566	

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10040	40408	A	10101	3	1160	RDQRGYRDDRRSPAREPGDVSA RTRSGGGGGRSATTAMPPVPVN GNLHQHDPQDLRHNGNVVVA GRPSCSRGPRRAIQKPQAGGR RSGRGAAGGLCLQPPDGGTC VPEEPPVPPMDWEALEKHLA LQFREQEVNRNQGVQARTNSTSA QKNERESIRQKLALGSFFDDGP GIYTSCSKSGKPSLSSRLQSGM NLQICFVNDSG\SDKDSDADDS KTETSLDTPLSPMSKQSSSYS RDTT\EEEESESLGWTWDFLYKG KRNLQAEAKMALAMAKPMAK MQVEVEKQNRKKSFPVADLLPH MPHISECLMKRSLKPTDLRD\LI MGQLQVIVNDFISQ\IKSLNEEW VQLLL\AQDELHTEQDAMLVDIE DLTRHAESQQKHMAEKMPAK
10041	40409	A	10102	1	506	RGPRTEPQDCCPRAAAGARPS GPG/QDLPRRLPGSPGAPGAG GGAGTAAGRKGPGLPPEAAAD GAWRLGEGWAAASEEPAPPGP HTSQRGASPPQPGWARAAGLS NQPTKDRIFGGSHKAAPQASAD SPTSLQCGAAGHCPKASRRALG DNPETEATSSLSPTEWLQ
10042	40410	A	10103	1	429	MGSRLNWMEVIPEQCTYLHVL KCMFFWNRQHRGGIQEKAALK QRTPRIFHEKNTPCYLLVQE*H RSNAFGEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEETLFSNM
10043	40411	A	10104	4	122	
10044	40412	A	10105	53	619	ILVWSIVPEGKILWGKQQRD SRTQRLLKKSPWRAKQSVWEE/ ERKKKNKEEKEKEKEKEK EKEKEKKRKKRKKKKKKKK KKKKKKKKKKKKKEEEEE EDEEEEEEEKKKKEKEEKVK EKKKEEK/KQEEKEEEN/EEEE EEEEKEEKSSSSKYSLLDSVPTL LISLWVILNTLPELLQPA
10045	40413	A	10106	2821	4680	
10046	40414	A	10107	18	1535	
10047	40415	A	10108	3	1494	
10048	40416	A	10109	3	617	
10049	40417	A	10110	3	1142	
10050	40418	B	10111	1	2151	
10051	40419	B	10112	1	1461	
10052	40420	A	10113	1	1248	
10053	40421	A	10114	2	1624	

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10054	40422	A	10115	1	1416	
10055	40423	A	10116	1	2262	
10056	40424	A	10117	1	1791	
10057	40425	B	10118	1	1497	
10058	40426	B	10119	1	1599	
10059	40427	A	10120	1	1722	
10060	40428	A	10121	1	3168	
10061	40429	A	10122	1	1083	
10062	40430	A	10123	1	589	MGAIYDKPTANIILNGQKLEAF PLKTGIRQGCPLSLLFNIVLEV LARAIRQEKEIKVIQVGKEEVK LSLFADDMIVYLEDPHISAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEKEDTNKWKNIPCSWVG RINIVKMAILPKPYVES
10063	40431	A	10124	1	1566	
10064	40432	B	10125	1	2406	
10065	40433	A	10126	1	2478	
10066	40434	B	10127	69	1259	
10067	40435	B	10128	225	997	
10068	40436	A	10129	2	1124	
10069	40437	A	10130	1	2058	
10070	40438	A	10131	258	823	TLMQKSSAKYWQTESSTSKSL STMIKWASSLGCKAGSIYANQ* M*SSI/YTNNRQTESQIMSELPFT IASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMFTFFTELEKTTLKFIRNQ KRACIAKSILSQTKLEASRYLTS NYTTRLQ
10071	40439	A	10132	1	1512	
10072	40440	A	10133	1	992	
10073	40441	B	10134	1	2019	
10074	40442	A	10135	1	1203	
10075	40443	A	10136	1	1578	
10076	40444	A	10137	1	2956	
10077	40445	A	10138	1	1983	
10078	40446	A	10139	1	3156	
10079	40447	A	10140	1	3325	
10080	40448	A	10141	1	1870	
10081	40449	A	10142	1	1446	
10082	40450	A	10143	1	2310	
10083	40451	A	10144	1	1293	
10084	40452	A	10145	1	1038	
10085	40453	A	10146	1	1713	
10086	40454	A	10147	1	2271	
10087	40455	A	10148	1	3654	
10088	40456	A	10149	1090	1647	

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10089	40457	B	10150	1	1248	
10090	40458	A	10151	1	1884	
10091	40459	A	10152	1	1140	
10092	40460	B	10153	1	1545	
10093	40461	A	10154	1	3300	
10094	40462	A	10155	1	1824	
10095	40463	A	10156	1	1023	
10096	40464	A	10157	1	2169	
10097	40465	A	10158	1	2661	
10098	40466	A	10159	1	1104	
10099	40467	A	10160	1	1668	
10100	40468	A	10161	1	1945	
10101	40469	A	10162	1	3303	
10102	40470	A	10163	1	1382	
10103	40471	A	10164	1	399	MPPVDASRDLRELNPLSSYKAK PNEYLLLQVLFLNRNTKEGLI RLLARYPDDLQQTESQIMSELP FTIASKRIKYPGIQLTKDVEDLF KENYKPLLSK\KEDANKWKNIP CSWIGRINIVKMAVLPKKKIWV
10104	40472	A	10165	1	2218	
10105	40473	B	10166	1	2562	
10106	40474	A	10167	1	3169	

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10107	40475	A	10168	1	2105	MKAEIKMFFETNENKDTTYQN LWDAFKAVCRGKFIALNAHKKR KQERSKIDNLTSQLKELEKQEQ THSKASRRQEITKIRAELKEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK WDITDPTEIQTTIREYYKHLA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIGKEGILPNSFYE ASIIIPKPGRDITTKANFRPISL MNIDAKILNKILAKRIQQHIKKL IHHDQHINKAKDKNHMIISIDAE KAFDKIQPFMLKTLNKLIGIDG TYFKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPSPLLFNIV LEVLAIRAEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKAE NYKPLLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKGFCRFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINAAGTT GFPTGKRAVSATQLMDFADFG TTIKQDFRLLGQTSVDRLLQLS QGQAVKGNQLLPVSLVKKRTT LAPNTQTASPRALADSLMQLA RQVSRLESGQ
10108	40476	A	10169	1	1689	
10109	40477	A	10170	425	1333	
10110	40478	A	10171	1	2274	
10111	40479	A	10172	1	3828	
10112	40480	A	10173	3	3130	
10113	40481	A	10174	1	960	

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10114	40482	A	10175	746	2470	TLMQKSSIKYWQNESSSTSKSL STMIKWASSLGCKAWFNIRKSI KVIQHINRAKDKNHMIISIDAEK AFDKIQPPFMLKTLNKLIGIDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPVSAQN LLKLIRNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPPTIA SKRIKYLGIQLTRDVKDLLKEN YKPALLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKNWKKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHTYNYLIFDKPEKNKQWGKD SLFNKWCWENWLAICRKLKLD PFLTPYTKINSKWIKDLNVRPK TIKTLEENLGITIQDIGMGKDFM SKTPKAMATKAKIDKWDLIK KSFCTAKEATIRVNRQPTKWEK IFATYSSDKGLISRIYNELKQIY KKKTNNPIKKWVKDMNRHFA KEDIYAAKKHMKKCSPLAIRE MQIKTTMRYHLTPVRMAIKKS
10115	40483	A	10176	1	3492	
10116	40484	A	10177	1	3139	
10117	40485	A	10178	637	2760	
10118	40486	A	10179	2	3932	
10119	40487	A	10180	1	1865	
10120	40488	A	10181	1	5754	
10121	40489	A	10182	959	1615	
10122	40490	A	10183	701	6973	
10123	40491	A	10184	3	3319	
10124	40492	A	10185	1	3296	
10125	40493	A	10186	1	2296	

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10126	40494	A	10187	1614	2615	TLMQKSSIKYWQTESSSTSKSL STMIKWASSLGMQGWFNICKSI NVIQHINRTKGKNHMIISIDAEK AFDKIQQPFLKTLNKLIDGT YLKIRAIYDKPIANIILNGQKLT FEKPLKIGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLAKE EVKLSLFADDMIVYLENPIVSV QNLLKLISNFSKVSGYKIYKIDV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FK\ENHKPLLKE\IKEDTNKWKN IP\CSWVGGRINLVKMAIL\PKVI YRFNAIPIKL\PMTFFTELEKNYF KVHMEPKKEPVLPSQS
10127	40495	A	10188	141	401	
10128	40496	A	10189	1	156	MQFPKTKTKKKEEEEEEEEEEE EEEEEEEE\EEEEEEEEEGEE EKEEI
10129	40497	A	10190	1	1446	

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10130	40498	A	10191	272	2722	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLLDTGAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLMPERPTG LLGRDILAKAGAIYMNMGNKL PICCPLEEGINPEVWALEGQFG RAKNAHPVQIRLKDPTTFPYQR QY/PLRPEAHKGLQNIVKHLKA QGLVRKCSSPCNTPILEVQRPL VQDLRLINEAVISLYPVVPNPYT LLSQIPEEAEWFTVLDLKDAFF CVPLHSDSQFLFAFEDPTNHTS QLTWMVLPQGFRDSPHLFGQA LAKDLGHFSSPGTLVLQYVDDL LLATS*EALCQQATLDLLNFLA NQGYKVSMSKAQLCLQQVKY LGLILAKGTRALSKE*IQPILAY PRPKTLKQLREFLGITSFCRLWI PGYSETARPLYTLIKDTQRANT HLVEWESEAETAFTKTLKQALV QAPGLSLPTGQNFSLYVTERAG IALGVLTQTRGTTQPVAHLSK ETDVVAKGWPHCLRVVAAVA VLVSEAIKIIQGKDLIVWTTHEV NGILGAKGSLWLSDNCLLRYQ ALLLEGPVLQICTCMALNPATF LPEDGEPIKHDCQQIIVQTYAAR DDLLEVPLTNPDLNLYTDGSSF VENGI/RKVSDVTILESKPLPPGT SAQLAELVALTWALELGKGR

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10131	40499	A	10192	1	2529	MTQEPSAIMREVPEMVNLIKGT GDIHNTEIQNDNGKVGMTKCM AKPKDELRLNLKILSESLESAQR QGVSKQEKVLQCRRAQDLQPT MPEPPIPSMGSCAARASPTSATP CSRAPSPTDHPTAAKCRMRAR YWQAAPPAALVLDQLGEASW APESANLVGKWRTFVSSSGTA NAPISTLSKQTTGLYQSAGCGW GQNLGAKYRAPVGQLKATSTA ARLKTRVSGFLGKGSLLTPDSS ELGPLDPTDHTSGLTWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLILQYVDDLLLATSLEALCQ KATLDLLNFLANQGYKVSRLK AQLCLQ\SEIARPLYTLIKETQR ANTHLVVSEPEAVI/AFETLKQA LVHAPALSLPIGQNFSLYITERA GIALGDLTQTCGTPQPVA YLS KEIDVVAKGWPHCLRVVAAVA ILVSEAIKIMQGKDLTVWTTTHD VNGILGAKGSLWLSDNHLLRY QALLLEGLVLQICTCVALNTAT FLPEDGEPHEDCQIIIVQTYAT RDDLLEVPLTNPDNLNYTDGSS VVENGIRRAGYAIVSDVTILESK PLVPGTSAQLAELVALTRALEL GKGKIINVYTD SKYAYLILHAH AAIWKEWEFLTSGNPHGCHRE VMELLH MVQETKEVGVLHYQS HQNGKERGEQQRKQLAEASAA FLWGRALDLQPTMPEPPIPSMG
10132	40500	A	10193	1	197	
10133	40501	A	10194	1	259	
10134	40502	A	10195	1	295	
10135	40503	A	10196	1	439	
10136	40504	A	10197	1268	1420	
10137	40505	A	10198	1	389	
10138	40506	C	10199	1	298	
10139	40507	A	10200	2	90	
10140	40508	A	10201	3	1252	
10141	40509	A	10202	2	82	WMKLETSKLT*EQKTKHCMFS LISGS
10142	40510	A	10203	149	244	
10143	40511	A	10204	485	668	
10144	40512	B	10205	1	598	
10145	40513	C	10206	422	784	

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10146	40514	A	10207	3	899	IYNHLIFDKPDKNKQWGK\DSL FNKWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEENLGNTIQDIGMGKDFMTK TPEAMATKAKIDKWDLIQLKSF CTANETVIRVNRQPTWEKIFAI IYPSDKGLISKIYKELYEKKTNN LIKKWAKDMNRHFSKEDFYEA KKHEKSSSLLGQGVTKGGCCLP MNLGTYRSEENPSEYQRRQLI KTLRVCKPSSSYFLTSDFLDTPS FSCEPTQTNELQGCSLFRVAT AAGPVQVRGARLPFAAPERGL AQIPRQMDSKI
10147	40515	A	10208	3	352	APGRRRLCQFAGGPGAWPGS AVPGSVSPAPDARSPISGPSRAL RRHLRPSAAGGPGLEIPTHDPH LPGVDYKEGRP\PSGKAGRGGP\ PGKGSPSASGARALGVPAAAA TPRASTL
10148	40516	A	10209	1	510	
10149	40517	A	10210	73	327	
10150	40518	A	10211	1	957	MWSTCKLHGQGAKYILCAEEL SWGAASCLHGSTMSTLVVSM CVG\AWPLMGGQDKP/FLSARP STVVPRGGHVAF/RCHYRRGFN NFMLYK/EDRSHVPIFHGRIFQE S/FIMGPVTPAHAGTYRC/RGSR PHSLTGWSAPSNP/LVIMVTGN HRKP/SLLAHPGPLLKSGETVI/L QC/WLSA/PSDPLDIVIT/GWENP CLSHVL*S*SHS*ELPADDGEKH GQMQRPKTG*NPSSSWPSPTE/ PSSKSGICR/HLHVLTGTSVVIFL FI/LLFFLLYRWCSNKK\DSDE QDPQEVTYAQL/NHCVFQIRKIS RPSQR/PKTPLTDTSVYTELPNA
10151	40519	A	10212	351	637	AWIGDMGLDWRYGLRVEISA WSGDMGLEWRYGL/REGMFN DTLRLIGEHHDGVSKANFSISR MKQDLAGTYRCYGSVTHSPYQ LSAPSDPLDIVII
10152	40520	A	10213	1	1314	
10153	40521	A	10214	1	1008	

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10154	40522	A	10215	3	1080	GQDKPLLSAWPSLVVPLGHVIL RCHSYLGFNNFSLYKEGVHRKP SLLAHPGRLVKSEETVILQCWS DVRFEHFLHREGKFKDTLHLI GEHHDGVSKANFSIGPMMQDL AGTYRCYGSVTHSPYQLSAPSD PLDIVITGLYEKPSLSAQPGPTV LAGESVTLSCSSRSSYDMYHLS REGEAHERRFSAGPKVNGTFQ ADFPLGPATHGGTYRCFGSFRD SPYEWSNSSDLLVSVTGNSRY LHALIGTSVVIIPFALLFLLHR WCANKKNAAVMDQEPAGNRT VNSEDSDQDHQEVSYA*LDH CVFTQREITRPSERP KTPPTDTS MYIELPNAEPRSKVVF C PRAPQ
10155	40523	A	10216	3	1379	
10156	40524	A	10217	352	1825	
10157	40525	A	10218	1	1497	MGLEWRYGPGGADMDLEWRY GPGVEMVWWSGDMGLEVEIR AWSGDMGLEWRYEPGDGDMG LEWRYGPGGGQDKPLLSTWPS LVVPPEHVTLRCHSNLGFNNFS LYKDDGVPVPELYNRIFWKSLE MGPVTPSHTGTYRCRGSHTHSP SGGSAPSNPLVIVVTGFRRKPSL LAHPGPLVKSEETVILQCWSDV MFEHFLHREGTFNHTLR LIGE HIDGVSKGNFSIGRMTQDLAGT YRCYGSVTHSPYQLSAPSDPLD IVITGLYEKPSLSAQPGPTVLAG ESVTLSCSSRSSYDMYHLSREG EAHERRLPAGPKVNRTFQADFP LDPATHGGTYRCFGSFRDSPYE WSKSSDLLVSVTGNSNSWPS PTEPSSETGNPRHLHVLIGTSVV KLPFTILLFLLHRWCSNKKNA SVMDQGPAGNRTVNREDSDEQ DHQEVSYA*LDHCVFTQRKITP PSQRPKTPPTDSSMYIELPNAES RSKAVFCPRAPQSGLEGIF
10158	40526	B	10219	114	1944	

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10159	40527	A	10220	20	1138	AGARPPVCTGSTMSLMVIIIMAC VGFFLLQGAWPQEGVHRKPSF LALPGHLVKSEETVILQCWSDV MFEHFLHREGKFNNLTHLIGE HHDGVS KANFSIGPMMPVLAG TYRCYGSVPHSPYQLSAPSDPL DMVIIGLYEKPSLSAQPGPTVQ AGENVTLSCSSRSSYDMYHLRS EGEAHERRLPAVRSINGTFQAD FPLGPATHGGTYRCFGSFRDAP YEWSNSSDLLVSVTGNPSNSW PSPTEPSSKTGNPRHLHVLIGTS VVKIPFTILLFLLHRWCSDKKN AAVMDQEPAGNRTVNSSEDSE QDHQEVSYA*LDHCVFTQRKIT RPSERP KTPPTDTSMYIELPNAE PRSKVVFCPRAPQSGLEGIF
10160	40528	A	10221	1	1334	MSLMVVSMAVCGLFLVQRAGP HMGQDKPFLSAWPSAVVPRG GHVTLRCHYRHRFNNFMYKE DRIHIPHFHGRIFQESFNMSPVTT AHAGNYTCRGSHPHSPTGWSA PSNPVIMVTGNHRKPSLLAHP GPLVKSGERVILQCWSDIMFEH FFLHKEGISKDPSRLVGQIHDG VSKANFSIGPMMQDLAGTYRC YGSVTHSPYQLSAPSDPLDIVIT GLYEKPSLSAQPGPTVLAGEVS TLSCSSRSSYDMYHLRSREGEAH ERRFSAGPKVNGTFQADFPLGP ATHGGTYRCFGSFRDSPYWSN SSDLLVSVTGNPSNSWSPTEP SSETGNPRHLHVLIGTSVVIILFI LLL FLLHRWCN\KKNAAVM DQESAGNRTANSEDSEQDPQ EVTYTQLNHCVFTQRKITRPSQ RPKTPPTDIIVYTELPNAESRSK
10161	40529	A	10222	50	492	RARHRVTRPSIRKHS GHIRRLC LTCSSGVFLQGLRAGSRGTGPG LRTGWRLSPRAPRRRLHTPSAS SP*CSQ*RGPSAGTAAGARRRW RCRGQLRHPAGTSPPGRRWTG TACGPPAAPPAPWHSSWSCPHS GAGPPWSPACRTASL

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10162	40530	A	10223	3	3159	QAEFAAASTTPALGSDGVRVT MDSALTARDRVGVQDFVLLEN FTSEAAFIENLRRRFRENLIYTYI GPVLVSVNPYRDLQIYSRQHME RYRGVSFYEVPPHLFAVADTV YRALRTERRDQAVMISGESGA GKTEATKLLQFYAETCPAPQR GGAVRDRLLQSNPVLEAFGNA KTLRNDNSSRFGKYMDVQDFD KGAPVGGHILSYLLEKSRVVHQ NHGERNFHIFYQLLEGGEETL RRLGLERNPQSYLYLVK
10163	40531	A	10224	1	2810	MLNGCAHAHPFPTRILSECPRG MLRAGFHLNRREALPPSRSHIS AAVLAPGALLSWGPDHPLELY GLHSHQDPPTGYEGVKGAPVG GHILSYLLEKSRVVHQNHGERN FHIFYQLLEGGEETLRLGLER NPQSYLYLVKGQCAKVSSINDK SDWKVVRKALTVIDFTEDEVE DLLSIVASVLHLGNIHFAANES NAQ\VTTENQ\VKYLTRLSSVE GSTLREALTHRKIIAKGEELLSP LNLEQAAAYARDA
10164	40532	A	10225	1	416	FRGVARQLRTSAMTMPVNGAH KDADLWSSHDKMLAQPLKDSD VEVYNIKKESNRQRVGLELIAS ENFASRAVLEALGSCLNKYE GYPGQ\GSPANFAVYTALVEPH GRIMGLDLPDGGHLTHGFMTD KKKISATSI
10165	40533	A	10226	135	840	GSPANF/AV/YTALVETHGCIMG LDLPDGGHLTHGFMTDKKKIS ATSIFFESMPYKGGPHNHTIAG VAVALKQAMTLEFEVYQHHV VANCRALEALTELGYQTVTG CSDKHLILVDLHSIKGTDGRRRA EKVLEACSIACNKNTCPDDRNT LRPSGLRLGNPALTSGLLEKG FQKVAHFHIRGIELTLQIQSNAG IRATLKEFKERLAGHKYQGCVCV QALQEEVESFTLFPLPLPDF

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10166	40534	A	10227	2	1355	QLRTSAMTMPVNGAHKDADL WSSHDKMLAQPLKDSDEVYN IIKKESNRQVRGLELIASENFAS RAVLEALGSCLNNKYSEGYPG QRYYYGGTEFIDELETLCQKRAL QAYKLDPPQCWGVNVQPYSGSP ANFAVYTALVEPHGRIMGLDLP DGGHLTRGLMTDKKKISATSIF F*SMPYKANPETGYINYGQLEE NARLFHPKLIAGTSCYSRNLEY ARLRKIADENGAYLMADMAHI SGLVAAGVVPSPFEHCHVTTT THKTLRGCRAGMIFYRKGAV ALKQAMTLEFKVYQHQQVAN CRALSEALTELGKIVTGGSDN HLILVDLRSGTDDGGRAEKVL EACSIACNKNTCPGDRSALRPS GLRLGTPALTSRGLLEKDFQKV AHFIHRGIELTLQIQSDTGVRAT LKEFKERLAGDKYQAAVQALR EEVESFASLFPLPLPDF
10167	40535	A	10228	2	243	GTACNPAWPPGLAPHLTHYA DLLPGSPFHVALPPPESELWETP DVSLITGAPRLGQTPVTEAVSGR RGIAIAYEDEGSG
10168	40536	A	10229	1	1194	MESMFSSPAEAAALQRETGVPL LTPLDLDGVYELERVAGFVRD LGCERVALQFPDQLGDAVAV AARLEETTGSKMFI LGDTAYGS CCVDVLGAEQAGAQALIHFGP ACLSPPARPLPAFV/LSSTFCG LGALCQGL*GPEPRPQSACGAA GEPACAHALDTGKTQDEGAR AGRRLRARRRYLVERARDARVV GLLAGTLGVAQHREALAHLRN LTQAAGKRSYVLALGRPTPAK LANFPEVDVFLVLLACPLGALAP QLSGSFFQPILAPCELEAACNPA WPPGLAPHLTHYADLLPGSPF HVALPPPESELWETPDVSLITGD LRPPPAWKSSNDHGSLALTPRP QLELAESSPAASFLSSRSWQGL EPRLGQTPVTEAVSGRRGIAIA
10169	40537	A	10230	35	429	KEKRYLVYLGCCDLPEK*ESV* TNPVQPIELSAMMAYPVAALSP HVA/RLNT*MTNVTEKLSF*S*L T*I*V*PHVFSGYCTGQCRSS*A SSSSSSSSSSSSSSSSSSSSSSSS SSSASDK*WAEASPRVR

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10170	40538	A	10231	73	393	RTQAPKLSQGGPRCIPPPKLCL MESMFSSPAEAAALQR\ETGVPG LLTPLDLDGRSVALQFPDQLLG DAVAVAAARLEETTGSKMFI\G DTAYGSCCVDLGAEQAGAQAQ
10171	40539	B	10232	191	367	
10172	40540	A	10233	131	1681	RTQAPKLSQGGPRCIPPPKLCL MESMFSSPAEAAALQR\ETGVPG LLTPLDLDGVYELERVAGFVR DLGCERVALQFPDQLLGDAVA VAARLEE\TTGSKMFI/LGVDT AYGSCCVDLGAEQAGAQAQALI HFGPACLSPPARPLPVAFVLSST FCGLGTLCQDLWGPKPRPQSAC GAA\GEPACAHAEALATLLRP RYLDLLVSSPAFPQPVGSLSEPE MPLERFGRFPLAPGRRLEEYGA AFYVGGSKASPDLDLPDLSRL LLGWAPGQPFSSCCPDGTGKTQD EGARAGGLRARRRYLVERARD ARVVGLLAGTLGVAQHREAL AH\LRNLVQAAGKCSYVLALG RPTPAKLANFPEVDVFLVLLACP LGALAPQLSGSFFQPI LAPCELE AACNPAWPPPG/LWVPHLTH/Y IADLLPGSPFHVALPPPESELWE TPDVSLITGDLRPPPAWKSSND HGSLALTTPRQLELAESSPAASF LSSRSWQGLEPRLGQTPVTEAV SGRRGIAIAYEDEGSG
10173	40541	A	10234	3	605	AAAREAAGRDMLAADLRCSLF ASALQSYKRDSVLRPFPA SYAR GDCKDFEALLADASKLPNLKEL LQSSGDNPQTGPGDLVSLDFYP QKVLTPNPVQ/WECRSFEKDSK S*LGLLTRFLHRTSCLKLST/SD PANAKFYETKGERDLIYAFHGS RLENFHSHHNLHCHLNKTSLF GEGTYLTSDLSLALIYSPHGHG WQH
10174	40542	A	10235	197	895	LGLLTRFLHRTSCLKLST/SDP ANAKFYETKGERDLIYAFHGSR LENFHSHHNLHCHLNKTSLF EGTYLTSDLSLALIYSPHGHGW QHSLLGPI LSCVAVCEVIDHPD VKCQTKKKDSKEIDRRRARIKH SEGGDIPPKYFVVTNNQLLRVK YLLVYSQKPPKRASSQLSWFSS HWFTVMISLYLLLLLIVFCGLL ALQDRGLPQVCPQIPCGWRPPS EGSQVFETQPGL

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10175	40543	B	10236	1	1059	
10176	40544	B	10237	226	522	
10177	40545	A	10238	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKHELTNFKSAA ED
10178	40546	B	10239	101	397	
10179	40547	A	10240	2	253	LQEFGRKDPPTTSGPQTDQAR EHLTNFKSSA/CQIPWNSGPRLS E*LLPRSSRLSS*RLT/RAQSPW KPTGQSQMLWVTLTVEGT
10180	40548	B	10241	1	409	
10181	40549	C	10242	1	462	
10182	40550	A	10243	1	861	
10183	40551	C	10244	1	140	
10184	40552	B	10245	1	1773	
10185	40553	B	10246	1	320	
10186	40554	C	10247	1	420	
10187	40555	A	10248	273	485	LGSGDLPWGINPLSSCSLLREK DPLTISGPQTHQPKHELTNFKSG PTENRTVQLTWQPLPEPELELW PKAL
10188	40556	A	10249	508	558	
10189	40557	B	10250	76	358	
10190	40558	C	10251	83	414	
10191	40559	B	10252	1	1111	
10192	40560	C	10253	1	411	
10193	40561	B	10254	1	1054	
10194	40562	B	10255	57	229	
10195	40563	B	10256	1	222	
10196	40564	A	10257	230	1272	LLCSSACKCLMLGLHFVIVGNI CATLKEKYSSMLHLDVTMCKN GEKRTRLQKRKKGMPPHPAYE DLNIAAITLPANVVLHQPSGFRT SGQLDPVWWSLDTDAHEIWCQ DPGLGSGDFPWEITPLSSYSLLH EKDPPTTSGPQTDQPKKHLTNF KSKTKETGFIHGPKTPAPVTDW EGSLPLVFNHCRDTSIIHPCFK GVRPRRDACLGPSPLAASPAFL EKGQDLINLAFKVYNNRKKLQ FLASTVRQTAATSPAHNQFQMP EPQRPQVPPEPPPTGACYMCRKV SGHWTRNAGSPGFLSRVPSV WDPTENRTVQLTWQPLPEPELEL WPKALCLTDSFPDLLGLAA

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10197	40565	A	10258	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKSGNNRCRRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DLADPAIPLLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
10198	40566	A	10259	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGFNICKSIN VIQHINRAKDKNHMUISDAEKA FDKIQQLFMLKTLNKLIGDGTY FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNYLIFD KPDKNKQWGKGSFNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKLEENLG ITIQDIGMGDMFMSKTPKAMAT KDKIDKWDLIKLKSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIIKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEEYASIKKNEFMSFAGA* MKLETII
10199	40567	A	10260	1	347	TNKIDRPLARLIKKKREKKQID AIKNDKGDITDPTETQTTIKEY YKHL YANKLENLEEMDKFFDT YTLPRLNQEEVESLNRPIAGSEI EAIINSLPT/KKSPGPDGFTAKFY QRE

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10200	40568	A	10261	31	809	KPRLINYVKNAEASGADAINW KKG Y/LVMEDEMNMKREGKF REKRIKRNEQSLQEIW DYVKRP TLHLIDVPETLNAHKRKQERSK TDTLTSQ LKELEKQE QTHSKAS RRQEITKIRAE LKEIET EKT LQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDA IKN DKGDITSDP TEIQT TIREYYK HLYANKLENL EEMDKFLDYTL PRLNQEEVES LNR PITGSEIVAIHNSLPTKKSPG PDGSTAEFYQRYKEEL
10201	40569	A	10262	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFF EKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITDPTEIQITIREYYK HLYANK LENLEEMDKFLDYTL PRLNQE EVESVNR PITGSEIEAITNSLPTK KSPGPDGFTA EFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASH LIPKPGRD TTKKGNFRPISLMNI DAKIL
10202	40570	B	10263	1	2265	
10203	40571	A	10264	1	2832	
10204	40572	A	10265	1	2757	

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10205	40573	A	10266	1	2114	MKEKMLRAAREKGRVTHKGK PIRLTADLSAETPQARREWGPFI NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTRPVLK ELLKEALNMERNWYQPLQKH AKNMPNSILIPKPGRDTTKKEN FRPISLMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIQGMQGW NIHKSINVIQHINRTIDKNHMIIS IDAEKAFDKIQQLFMLKTLNKL GIDGTYLKIRIKYLGQLTREVK DLFKENYKPLLNEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAISNKLPMFTFFTELEKTTL NFIWNQKRARIAKSILSQKNKA GGITLPDFKQYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWGKDSLF NKWCWENWLAVCRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEEILGITIQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLKSF CTAKETTIRVNRQPTKWEKIFA TYSSDKGLIFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AAKYMKKCSPSLAIREMQIKT TMRYHLTPVRMAIIKSGNNR QTESQIMSELPITIASKRIKYLGI QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVK/T WPYCPSPQMYMSPTWQPKTLQ LWRQPKYPWKGTHRRKK
10206	40574	A	10267	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSIIAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNLYQEFLFTP QWHLECQQERTVHSPGAAEA REPSVIDRHLIQESSNWHLVGA ALGQSFRKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLQCKEDKNLEK SAIKLELRIKNLIQN
10207	40575	A	10268	1	1797	

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10208	40576	A	10269	1	1751	MIISIDAEKAFDKIQQPFMLKTL NKLIGDGTIFYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPPFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTKDKIDKWDLIKL KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNGLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKHKMKCSSSLAIREM QIKTTMRYHLTPVRMAIHKSG NNRNHLDFKHIRILGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA
10209	40577	A	10270	1	4729	
10210	40578	A	10271	1	1428	

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10211	40579	A	10272	1	2718	MALFRVGMTTRRLGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAELEKEIE TQKTLQKINESRSWFFEKINKID RPLARLIKKKREKNQTDITKND KGDITDPTEIQTIREYYKHLY TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPIITGSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLSQIEKERILPNSSYE ASIIIPKPGRDITTKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMIIISIDAE KLISKFSKVSCHKINQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMALLPRFSAIPIKLPM FFTELEKTTLKFIWN/QKRARIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNILFDKPKD KKEWKGDSL FNKWCWENWLA ICRKLKLDPFLTPYTKMNSRWI
10212	40580	A	10273	396	1227	SLGRNSTSQKRVGANIQHS*RK EFSTQNFISSQTTLHK*RRNKIL YRQANAERFCHHQACPKTAPE RSTK\LERNNRLPARLIKKKREK NQIDATKNDKGDITDPTEIQT IREYYKHLYANKLENLEEMDK FPDITYTLPRLNQEEVESLNRPI GSEIEAIKSLPTKKRPGPDRFTA EFYQRYKEELVPFLLKLFQSTE KEGILPNSFYEASIIIAKPGRDT TKKENFRPISLLNIDAKILNKILA NRIQQHIKKLIHHDQVGFIPGM QGW FNI
10213	40581	A	10274	1	2168	
10214	40582	A	10275	1	1845	

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10215	40583	A	10276	1	2877	MENDFDELREEGFRQSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERVSA DEMNMKGEGKFREKRIKRNE QSLQEIWVYVKNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQTTISEYYKHLTYN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPIITGAE
10216	40584	A	10277	1	1689	MIFSIDA EKAFDKIQPFMLKTL NKLGDGMYLKIIRAMYDKPA ANIILNGQKLEAFPLKTGTRQG CPLSPLFNIVLEVLAIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPITSAQNLLKLISNYSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLNIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYTFSAIPIKLPMTFFTELEK TTSKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDKNQWGKDS LFNKWCWENWLDIWRKLKLD PFLTPYTKINSRSIKDLHVRPKTI KTLEENLGDITQDIGMGKDFMS KTSKAMATKAKIDKWDLIQLK SFCTAKETTIRVNRQPTWEKIF AIYSSDKGLIFRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEAI YAAKRHMKKCSSSLAIREMQIK TTLSLPAQVSVV/RHGLSFCWD SRG\CGKSGLFLAYSINPPQSH WDQEQVM
10217	40585	A	10278	1	2142	

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10218	40586	A	10279	1	1722	MIISIDAEKAFDKIQQRFMLKTL NKLIGIDGLYLKIIRAIYDKPTAN IILNGQKLEALPLKTGTRQGCPL SPLQFNIVLEVLRARIRQEKEIK GIQLGKEEVKLSLLADDMIVYL ENPIVSAQNLLKVISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWYQKRARITKSILSQRNK AGDITLPDFKLYYKATVNKTA WYWHQNRHIDQWNRTKPSEIT LHIYNYLFFDNPDKNKKWGKD SLFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI KTLEENLGITIQDIGMGKYFMT KTPKAMATKAKIDKWDLIKLK SFCTGKETTIRVNRQPTKWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKKHMKKCSPSLAIREMQI KTTMRYHLTPT/RLIVIGIEECLR GKEKLETLYYWNSDTHQV*W LGWP*WKSDHKKEQPSF

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10219	40587	A	10280	1	2076	MDKFLNTYTIPLRNQEEVESLN RSITGSEIEAIINNLPTRSPGPD GFTPEFYQRYKEELVPFLKLF QSIVKEGFLPNSFYEGSIILITKS GRDTTKKENLRPISLMNINAKIL NKILANQIQHHKKLIHHEQVDF IPGMQGWFNIRKSINVIQHINRT NDKNHMIISIDAEKAFDKIQQLF MLKTLNKLGDGTLYLKIIRAIYD KHTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLRARIS QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPVSAQNLLKLIGNF SKVSGYKISVQKSQAFLYTNKR QTESQIMSELPFTIVSKRIKYLGI QLTRDVKDLFKENYKPLLNEIQ DETNIKWKN\CSWVGRINIVKM VILP/KELEKTTLKFIWNQKRAR IAKTILSQKNKAGGITLPDFELH YKATVTKTACYLYQNRDIDQR NRTEPSEIMPHIYNLIFDKSDK NKKWGKDSL FNKWCWENWLA ICRKLKLDPFLPPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMSTKAKID KWDLIKLSFCTAKETAIRVNR EPTEWEKIFAIYSSDKGLISRIYN EFKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAANRHMKKCSSS LAIREMQIKTTQVGGSEKSAS ELGNKLIELDQSEWRGKED

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10220	40588	A	10281	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDY WVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKT VQKINES RSWFFERINKIDRQLARLIK KKR EKNLIDAIKNDKGDITDPTIEIQ TTIREYYKHL YANKLENLEEM DKFLD TYTL PRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVS GYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNK WKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFTELKKTTLNFIWNQK \RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLPFLT PYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
10221	40589	A	10282	1	1996	

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10222	40590	A	10283	1	1778	MIISIDAEKAFDKIQQPFMLKTL NKLIGDGTYLKIIRAIYDKPTAN IIPNGQKLEAFPLKTGTTQGCPF SPLLFNIVLEVLRVIRQEKEIK GTQLGKEEVTLSLFADDMIVYL QNPIVSAQNLLKLIGNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTEFFTELEKTT LKFKWNQKRACIAKSILSQKNK AGGIMLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDQNKQWGKDS LFNKWYWENCLAICRKLKLDLP FLTPYTKINSRWIKDLNVRKTI KALEENLGNTIQDIGMGKDFMS KTPKAMATKDKIDKWDLIKPK SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRNYNELKQIYK KKTIGPIKKWAEDMNRHFSKE DTYAAKKHMKKCSSSLAIREM QIKTTMRYHLTPVRMVIKKSG NNRCWRGCGETGTLSHCWWD CKL/IQPLW/RFLRD*GPKTGGD S*MIQVKY*PQQKKKGCPNA
10223	40591	A	10284	3	2875	

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10224	40592	A	10285	1	1838	MIIPIDAEKAFDKIQQPFMLKTL NKLGIHGMYLKIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LPPLLFNIVLEILARAIQEKEIK GIQLGKEEVKLSLFADDMIHYLE NPIVSAQNLLKLISNFSKVSQYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMFTFFTELEKTTLK FIWNQKRARIAKTLSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGKDSL NKWCWENWLAICGKLLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNLIELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELKQRHKKKT NNPIKKWAKDMNRHFSKEDIY AANRHMKKCSSSLAIREMPIKT TMRYHLTPVRMAIKKSGNNRC WRGCGEIGTLSHCWWDCNLVQ PLWKAVWRFLKDLELEIPFDPA ISLLG/IYPKDYKSCCYKDTCTQ STFTCRQHPL
10225	40593	A	10286	1	2046	

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10226	40594	A	10287	1	1700	MEDEMNMKQEGKFREKRIKR NEQSLQEIWVYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKMS RAAREKEIQTIREYYKHLNAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTAIFYQRQSESQI MSEFPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMTFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI ETLEENLGITIQDIGMGKDFMS KTSKAMSTKAKIDKWDLIKLKS FCTAKETIKVNRQPTKWEKIF ATYSSDKGLISRIYNELKQIYKK K'TNNPIKKWVKDMNRHFSKE DIYAAKRHMKKCSSSLAIREMQ IKTTMRYHLTPV
10227	40595	A	10288	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ

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10228	40596	A	10289	1	2019	MDTIKNDKGD/TTDPTEIQTTR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNR PVRG SEIEAIINSLPT/KKSPGPDEFTAE FYQRK VAFDKIQQAFTL KTLNK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGT RQGCPLSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLG IQLTRDVKD LFKENYKPLLNEIKEDTNK WEN IPCSWVGRINIMKMAILPKVIYR FNAIPIKLPVAF FTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSL FN KWCWENWLDIWRKLKLD PFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIKLSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
10229	40597	A	10290	1	3144	MGDFNTPLSTLDRSSRQKV NK DTQELNSTLHHADLDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKKRQKRCKIDTL ASQLKEVEKQEQT HSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKKR EKNQIDVIKNDK
10230	40598	A	10291	1	2274	
10231	40599	A	10292	1	2250	
10232	40600	A	10293	1	822	

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10233	40601	A	10294	1	2605	MKAEIKMFFETNENKDDTTYQN LWDAFKAVCRGKFIALNAYKR KQERSKIDTLTSQKLEKQEQ SHSKAGRRQEITKIRAEKKEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITNPTEIQTIREYYKHLA NKLENLEEMDTFLDTYTLPRLN QEEVGS LNTPITGSEIVAIINSLP TKKSPGPDGFTAEFYQRYKEEL PGRVPTKKENFRPISLMNIDAKI LNKILANRIQQHIKKLIHHDQV GFIPGMQGWFNIRKSINVIQHIN RAKDKNHMIISIDAEKAFDKIQ QPFMLKTLNKLIGDGTFRIRI IYDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYNFYVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAIPIKLP TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEIMPHIYNLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDI GVGKDFMSKTPKAMATKAKID
10234	40602	B	10295	111	2440	

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10235	40603	A	10296	1	1795	MIISIDAEKAFDKIQQPFMLKTL NKLSIDGTYFKIIRAIYDKPTANI ILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLARAIRQEKEIK GIQLGKEEVKLSLFAHDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSGVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKGACITKTILSQKNK VGGITLPDFKLYYKATVTKTA WYWYQ\NRDIDQWNRIKPSEIM PHIYNYLIFDKPEKNRQWGEDS LFNKWCWETWLAIWRKLKLDP FLTLYAKIN*RWIKDLNVRPKTI KTLEENLGITIQD\IGMGKDFM SKTPKAMATKAKIDKWDLIQL KSYCTAKENTIRVNRQPTKWE KIFATYSSDKGLITRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKHKMKCCSSSLAIRE MQIKTTMRYHLTPVRMAIIQKS GNNRTKRTIYRRNDDDDDDND NDDDSLMSLSRTEIPSSYSSELN VVLHKPRPEPSASTILLHTA
10236	40604	A	10297	1	2851	
10237	40605	B	10298	1	3220	

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10238	40606	A	10299	1	2047	MENDFEELREEGFRRSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERVSA MED EMNEMKREGKFREKRIQRNEQ SLQEIWVYVVRPNLRLIGVPET LHPRDEAHLKNLIDAIKNDKGD ITTDPTETITIREYYKHLANK LENLEETDKFLDTYTLPRLNQE EVESLNRPTGSEIVAINSLPTK KSPGPDGFTAIFYQRYKEEL/PD KQLQQLRIQNQCTKITSILIHQ QQTNREPHE*TPHNCFKENKI PRNPTYKGCEGPLQGELOTTAQ GNKRGYQMEEHSLMGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTLQGYSNQNSMVLVPKQR YRSMEQNRALRNNAAYLQLSD L*QT*EKQEMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NHKNPRRKP RHYHSGHRHGQGLHV*NTKSN GNKSQN*QMGSN*TKELLHSE KKKNY*QTEQATCKMGFHN LLI*QRANIQNLQ*TQTNLQEK KQPHQKVGKGHEQTLKRRHL CSQK\NHEKMTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS

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10239	40607	A	10300	1	2704	MYSHVITVCRHVKNGDILLNR QPTLHRPSIQHRARILPEEKVL RLHYANCKAYNADFDGDEM AHFPQSELGRAEAYVLACTDQ QYLVPKDGQPLAGLIQDHMVS GASMTTRGCFFTREHYMELVY RGLTDKVGRVKLLSPSILKPFPL WTGKQHINRTKDKNHMHSIDA EKAFDKIQQPFMLKTLNKL GID GTYLKIIRAIYDKPTASII LNGQK LEAFPLKTGTRQGCPLSP LLFNI VLEVLARAIRQEKEIKSI QLGKE EVKLSLFADDMIVYLENPT VSA QNLLKLMSNFSKVS GYKINVQ KSQAFLYTNNRQTESQIM SGLP FTITSKRITYLGIQLTRD VKDLF KENYKPLLKEIKEDTNK WKNIP CSWVGRINIVKMAILPK VIYRF NTIPIKLPMTFLTELEK TTLKFI WNQKRAHIAKSILSQKN KAGGI MLPDFKLYYKATVTKTA WYW YQNRDIDQWNRTEPSEIM PHI/Y YNYLIFDKPEKNKQWGK DTLF NKWCWENWLAICRKLKLD PFL TPYTKINSRWIKDLNVRP KTIKT LEENLGNTIQDIGMGKDF MSKT PKATATKAKIDKWDLIQ LKSFC TAKETTIRVNRQPTWEEI FAIY SSDKGLISRIYNELKQI YKKKTN NPIKKWAKDMNRHFSEED IYA AKKHMKKCSSSLAIREM QIKTT MRYHLTPVRMVIKKSGN NRC
10240	40608	B	10301	1	3345	

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10241	40609	A	10302	248	2623	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMLLST CDIDLTAAARAWLGCLPTKKSP GPDGFTAIFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASIILI PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIPGMQGWFNICKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLIDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNI PCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAG\GITLPDFK LYLQGLQ*PKTAWYWYQNRD IDQWNRTEPSEITPHIYNYLIFD KPEKNKQWGKDSL FNKWCWE NWLATCRKLKLDPFLTPYTKIN SRWIKDLNVRPKTIKTLEENLGI TIQDIGVGKDFMSKTPKAMAT KAKIDKWDLIKLSFCTAKETA IRVNRQPTTWEKIFATYSSDKG LISRIYNELKQIYKKK\TNNPIKK WAKDMNRHFSKEDIYAANKH MKKCSPLAIREMQIKTTMRYH

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10242	40610	A	10303	1	2467	MGDFNIPLSTSDRSTRQKVNKD TQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCRRTEIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNLL LLNDYWVNNEMKAEIKMFFEI NEDKDDTTYQNRWDTFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQE QTHSKASRRQEI TEIRAELEKETQKTLQKMNES RSWFFKINNIDRLLARLIK KKR EKNQIDA IKNHKG DITNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQE QVESLNRPI TGAEIEAIINSLRTKKSPG\PGGF TAEFYQRYKEKLIVLEVLARAI RQEKEIKGIQLGKEELKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYSNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEV KEDTNKWKNIPCSWIGRINIVK MAILPKVIYRFSAPIKLPMTFFT ELEKTTLKFIWNQKRS\RIAKSIL SQKNRAGGITLSDFKLYYKATV TKTAWYWYQNRDIDQWNKTE PSEIMPHIYNLIFDKPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDTGM GKDFMSETPKAMATKDKIDKW DLIKLSFCTAKETTIRVNRQPT
10243	40611	A	10304	2	2480	
10244	40612	A	10305	1	4793	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEIITNYS DHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVNNEMKAEIKMFF ETKENKDDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQE QTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIK KKR KNQIDTIKNDK
10245	40613	A	10306	1	4320	

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10246	40614	A	10307	1	3229	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIYRTLQ PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEIETKK\TLQKINE SRSWFFERIKKTDRLARLIKKK REKNQIDTI
10247	40615	A	10308	1	3392	MGDFNTPLSTLDRSRQKVNK NTQELNSALHQVQLIDIYRTLH PKSTEYTLFSAPHHTYSEIDHVV GSKALLSKCKRTEIITNCLSDHS AIKLELRIKLTQNCSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYPNLWDTFKAVC RGKFIALNAHKRKQERSEIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFEKINKIDRLARLIKKKRE KNQIDSIKNDK
10248	40616	A	10309	1	4137	MGKKQNRKTGNSKKQRASPPP KEHSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKKE VENFEKNLEECITRITDIEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSAMEDEMNMKQ EGKFREKRIKRNEQSLQEIWDY VKRPNLPPIDVPESDRENGTKL ENTLQDVIQENFPNARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTSG
10249	40617	A	10310	1	5195	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIHIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE IMKIRAELEIETQKTL\QKINE\ SRSWFF\ERINKIDRLARLIKKK REENQID\AI

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10250	40618	A	10311	1	2958	MKQEGKFREKRIKRNEQSLQEI WDYVKRPNLHLIGVPESDREN GTKLENTLQDIIQEDFPNLARK ANIQIQEIQRTPQRYSSRRATPR HTIVRFTKVEMKEKMLRAARE KGRVTHKGKPIRLTADLSAETL QARRELNQEEVESLNKPVTGSE VVAIINSLPTKKSPGPDGFTAEF YQKYKEEPVPFLLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RI\QQH\KK
10251	40619	A	10312	5211	7687	TDTSQKKTFYAAKRHMKKCSS SLAIREMQIKTTYHAGPDGFTA EFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIIIPKPGRDTT KK\ENFRPISLMNIDAKILNKILA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSIN\VIQHINRAKDK NHMISIDA EKAFDKIQPFMLK TLNKLGDGTYFKIIRAIYDNPT ANIILNGQKLEAFPLKTGTROG CPLSPLLFNIVLEVLAIRAEK EIKGIQLGKEEVKLSLFADNMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSQLPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNI PCSG\EGRINIVKMAIL PKNWKKTTLKF IWNQKRARIA KSILSQKNKAGGITVPDFQLYY KATVTKTAWYWYQNRDIDQW NRKEPSEIMPHIYDSLIFGKPKD NKQWGKDSL FNKWCWEDWLA ICRKLKLDPFLTPCTKINSRWV KDLNIRPKTIKTLEENLGNTIQD IGMAKDFMSKTPKAMATKAKI DKWDLIKLSFCTRIAKEPTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYA AAKKHK KCSSLAIREMQIKTTMRYHLT PVRMAIIKKSGNNRCWRGCGE TGTL LHCWWDCKLAQPLWKS

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10252	40620	A	10313	1	4525	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH HKSTEHTFFAAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQNRSTTWKLN LLNNYWVHNEMKAEIKMFFE TNKNKDTTYQNLWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKQLEKQEQTTHSKASRRQEI TKIRGELKEIETQKTLHKINESR SWFFERINKIDRLLARLIKKRE KNQIDAIINDKG
10253	40621	A	10314	1	1185	MEDIKRTQKNLSEMKATLAEM KNTLDGINDHGRDSRRKIRKLQ DNGGDDPTGNTQRKKNLINGP SLSVHIGEKRGGRSWAETLTP LQTKALRLGPTTPSARRKCGIV PNLQTRKTEAYRYPDTHPGETP VGTAVLSIQKPKLESVIDVRVN MSSFHPEPELQPTQTSVLPDQD ATVAGSTTKFPEEQEARQGRVR ERPATRERPVPGGVSVPLHHI HFLRGPSLPLASLTRITVLEAVV CFFSVWSIVGLSGFHTYLISSNQ TTNEDIKGSWSNKRGENYNP YSYGNIFTNCCVALCGPISPR/LSHTGQRPTPIECEPHNLVTSA ETLLASKPD/PTEEGTSSPTRRS QQHPPMASPCTGPRSHRVCTLEKREEEEGVGQRLSPLCKPRL
10254	40622	A	10315	44	302	GLLGPGPPTAC*CGPHCGIHPES SPQSWCLCHSHRSSRAPPLARL SGDRHPGWRTWGGRDARSA RGQWWCLVEPVLPFSTRSAFW

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10255	40623	A	10316	3	2182	IRDPGKKPVMLFLHGGSYMEG TGNMFDGSVLAAYGNVIVATL NYRLGVLGFLSTGDQAAKGNV GLLDQIQALRWLSENIHFGGD PERITIFGRYSQPGLSYHIAFGPV VDGDVVPDDPEILMQQGEFLN YDMLIGVNQGEGLKFVEDSAE SED/GAFDFTVSNFVDNLYGYP EGKDVLRITIKFMYTDWADRD NGEMRRKTLLALFTDHQWVAP AVATAKLHADYQSPVYFYTFY HHCQAEGRPEWADAAHGDDEL YVFGVPMVGATDLFPCNFSKN DVMLSAVVMTYWTNFAKTGD PNQVPYDTKFIHTKPNRFEEV VWSKFNSKEKQYLHIGLKPR WSRFRGVLYQVFHDTICEKEAP KSSLLRKQTQPPKKQSSPAVHL RCTMDPVMMTVSPPAHRHRR RGSPTRCAHCPVAWAPDDE KPHQYPAICSYHWDVPEDWEG FQHTQGTWVPWSQDAPESPPQ TIRFQPTVEERPLKTGIWSELGL RAYVYPVNPPPSPEAPSHKNG RIVYDARDMRRRLRELTREVE ALSGCYPLASGSSTAEETSKNW VYRSLTGSQKMSQLHRVPFFD QEDPDSYLEEEDNLFPYPKY RRGWGGFYQRAGLPSNVGLW GHQGGILASLPPSLYLSPELRC MPKRVEARKCQDLGDSILLG SFILLNVWINVTLLWKHLKSS
10256	40624	B	10317	37	241	
10257	40625	A	10318	2	815	
10258	40626	A	10319	1	943	RAGGQGVG*GWGPPSVPCSVH GGKGL/PPEEGPGQVTHLEFGR GDGLLTPWWPLTGDGRGSA/S LASQRTCSQ*GMWLPAAQSPS HPGPAGTVGQSHLHL*GLLGPG PPHCLLMRPTLRDSSRVFTSKL VSVQPQVQQGPTTRKTVWRS ASWMENLGRKGCQVCSTWPM VVPGGACTSIWEWEADRVTPG GHRGSSCSHSAAGGANAAPHG PRGRPGGHAAAGGRHSTDGRS SCSPRPDPGAARPQSAVHTDY RSPSLGTFPLAQPFGESKSDQSA PGIRGQKAPLAVARRGQQTTPRP RGQARGRGRGTRPR

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10259	40627	A	10320	39	621	SCPEEEESSLLSPGTSWPLHAW ACSAAQVTGRERVVADWPGY HPGGPTAPHWRAGPLSDKTRPS RDVGTWDTGRAGCPPPPGRNP GPPDQRKALGVVVTSGSQLG NGTPNSCLSPRQCWIQRLGGSS RTGPPPPGSVPEAAVSCPGHHT LFGLRSGAGKIQG*LLGPGWEL GQAGTEPPLPLAPPPHRSCG
10260	40628	A	10321	1	496	AAATYVQNQSEDCLYLNLVVP TEDGPLTKKRDEATLNPPDIDI RDPGKKPVMLFLHGGSYMEGT GNMFDGSVLAAYGNVIVATLN YRLGVLGFLSTGDQAAKGNYG LLDQIQALRWLSENIAHFGGDP ERITIFGSGAGASCYNLLLSHH SEGLFQKAIASGT
10261	40629	A	10322	1	4304	MLPVWFTDNLGAAATYVQNQ SEDCLYLNLVPTEDGPLTKKR DEATLNPPDIDIRDPGKKPVML FLHGGSYMEGTGNMFDGSVLA AYGNVIVATLNRYRLGVLGRYS QPGLSYHIAFGPVVDGDVVPDD PEILMQQGEFLNYDMLIGVNQG EGLKFVEDSAESEDGVSASAFD FTVSNFVDNLYGYPEGKD/DW ADRDNGEMRRKTLLALFTDH QWVAPAVATAKLHADYQSPV YFYTFYIHCQAEGRPEWADAA
10262	40630	A	10323	1	2765	MDVGFSRTTVQTLRSCHCKNIK QKISQWEGRANGISNPEKWCPK DFGVRYNCHQEIRLKKNPJAER KSKNLDVTSRENVGLDINENTK SHDQSENENKKHEYDDTHFFK NESESNWVCSRVEIESCKEDV LDPETSLPPGNFYTSQILWKKIE ALPPDKLLNLALHCDSEKEL NFRVLDSSYGITKSLENIYSEPE GQECGPSINPLPKPRRTFRYLSE SGVTPYKERNCDKKYCENNSC AQSSSLASSQEPE
10263	40631	A	10324	2	597	RWLIPKVMRIYDTQKKMDREA SQAALQKMLTLLMLPPTFGDLL REEYIGDNGDPQTLQAQFQEM MADSMFVIPALQVAHFQCSRA PVYFYEFQHQPWLKNIRPPHM KADHVKFTEEEQLSRKMMKY WANFARNGNPNGEGLPHWPLF DQEEQYLQLNLQPAVGRALKA HRLQLWKKALPQKIQELEEPE ERHTEL

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10264	40632	A	10325	2	1766	PGQPLGEQQRVRRQRTETSEPT MRLHRLRARLSAVACGLLLLL VRGQGQDSASPIRTTHTGQVLG SLVHVKGANAGVQTF LGIPFAK PPLGPLRFAPPEPPESWSGVRDG TTHPAMCLQDLTAVESEFLSQF NMTFPSDSMSSEDCLYLSIYTPA HSHEGSNLPVMVWIHGGALVF GMASLYDGSM LAALENVVVI IQYRLGVLGFFSTGDKHATGN WGYLDQVAALRWVQQNIAHF GGNPDRV TIFGESAGGTSVSSL VVSPISQGLFHGAIMESGVALLP GLIASSADVISTVVANLSACDQ VDSEALVGCLRGKSKEILAIN KPFKMIPGVVDGVFLPRHPQEL LASADFQPVPSIVGVNNNEFGW LIPKVMRIYDTQKEMDREASQA ALQKMLTLLMLPPTFGDLLREE YIGDNGDPQ\TLPKRK\FQKMM ADS\MFVIPALQVAHFQ\CS\RAP VYLPTSSQH\QPSWLKNIRPPH MKADHGDEL PFVFRSFF\GGNY IKFTEEEELSRKMMKYWANF AR\NGNPNGEGLP\HWP\LFDQE EQYLQLNLQLAVG\RALKAHRF \QFWKKALPQKIQ\ELEPEERH
10265	40633	A	10326	2	435	ILAEFGSLHLEFLHL\TELSGNQV FAEKVRNIRKVL RKIEKPFGLYP NFLSPVSGNWVQH HVSVGGLG DSFYEYLIKSWLMSGKTDMEA KNMYEAELET\HKLGPFAFWF NSGREAVATQLSESYIILRPEV VESYMYLWRQTHNTK
10266	40634	A	10327	3	583	

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10267	40635	A	10328	1	1299	MHLNQLPPILSRLGAVGFFGSM KAHLVSVSRQVRNIRKVLRKIE KPFGLYPNFLSPVSGNWWQLPI PGSVAAGEMPASYPYRHRAP VRRVCEALPHHVSVGGLGDSF YEYLIKSWLMSGKTDMEAKN MYYEALEAIETYLLNVSPGGLT YIAEWRGGILDHKMGHLACFS GGMIALGAEDAKEEKRAHYRE LAVQITKTCYESYAR\SDTKLGP EAFWFNSGREAVATQLSEE/YT YILRPEVVESYMYLWRQTHNP SYR\EWGWEVVLALAEKYCRTE AGFSGDSKTCYSRHPQPRTTSR QSFFLAETLNRCLVSACNGPDT GLEARDTAESSETVISPAVKGSR GEKAMVRETDKPAKCIGKKSK NGKSDLKAASKMDAQFRSLCF EEVTPLWFEKVLEMNGPASPSV SPGGLSLEVWSLVMWHKDARP
10268	40636	C	10329	186	401	
10269	40637	A	10330	194	482	
10270	40638	A	10331	224	495	
10271	40639	B	10332	138	1810	
10272	40640	A	10333	1	1351	MGGVGEPGPREGPAQPGAPLPT FCWEQIRAHDPQGDKWLVIER RVYDISRWAQRHPGGSRLIGHH GAEDATDAFRAFHQDLNFVRK FLQPLLIGELAPEEPSQDGPLNA QLVEDFRALHQAEDMKLFDA SPTFFAFLLGHILAMEVLAWLLI YL\LGP\GWVPSALAAFILAI SQ AQSWCLQHDLGHASIFKKS WW NHVAQKFVMGQLKGFS AHWW NFRHF\QHHAKPNIFHKDP DVT VAPVFLGESSVEYGKKRR RYL PYNQQLHYFFLIGPPLTL VNFE VENLAYMLVCMQWADLL WA ASFYARFLSLSYLPFYG VPGVL LFFVAVRVL\ES\HWFV WITQM NHIPKEIGHEKHRDWSS QLAA TCNVEPS\LFTNWFSGH LNFQIE HHLFPRMPRHN\YSPV APL\KS LCAK\HGLSYE\VKPFL \TALVDI VRSLKK\SGDIVLDA YLHQ
10273	40641	A	10334	43	399	

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10274	40642	A	10335	1	2229	FLK\VC PQNNAETFGCLGTG\EK GDRGNQTQKPLHYKSWSLFHR SCPRDFYGSKV GDFQ GKENG G\GES\YGGFFEDEGVSLVKDH\ KEFLLSMANRGKDTNGSQFFIT TKPTPHLDGHHVVFQV\ISGQ EVRREIENQKTDAAASKPFAEVR ILSC\GELIPKSKVKKEEKKRHK SSSSSSSSSDSDSSRYS\QSSSDS SDSESATEEKSKKRKKKHKRKN RKHKKEKKRKKSKKSASSES EAEN/LLEAQPPLFRPEEIPLP IPENRFLMRK\SPPKADEKERKN RERERERECPNPNSQPASYQRR LLVTRSGRK\LKGRGPRRYRTPS RSRSDLFRS\ETP\PHWRQEM QRA\QRM RVSSGER\WIKGDKS ELNEIKENQRSPVRVKERKID HRNVSESPNRKNEKEKKVKDH KSNSKERDIRNNEKEDKYKNK VKKRAKSKSRKSKEKSKSKER DSK\HN\RNEEKRMRFKELKGR DHENVKEKEKQSDSKGKDQER SRSEKSKQLESKSNEHDHKS KEKDRAQSRRECDITKGKHS YNSRTRE\RSRRRDSSSRVRSRP HDRDRSMSEYHRYRDQVYS RRVRSRERERTPPGRSRSDR RRRRRDSRSEEDSQSRNKDK YRNQESKSSHRKENSESEKRM YSKSRDHNSNNSREKKADRD QSPFSKIKQSSQDDELKSSMLK
10275	40643	A	10336	3	3366	

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10276	40644	A	10337	3	2431	GCLQELSVLFARGEPRGPCHNL LHYMLALIGVPEVFWAFLFHCS LGLEEEKLAPLIKGEKIVWLRS SFYFQHCLVDKSTLLPSSSVSLG IFHEEKNSGEFPIFAKAVRLALV PLRYVKLEDNRDNWISVDSVTSE IKLAKLPDFESRYVQNGTYTVK IVAISEDYPRKTITGTVLINVEDI NDNCPTLIEPVQTICHDAEYVN VTAEDLDGHPNSGPFSSVIDKP PGMAEKWKIARQUESTSVLLQQ SEKKLGRSEIQFLISDNQGFSCP EKQVLTTLTVCECLHGS\GCREA QHDSYVGLGPAAIALMILAFLL LLLVPLLLLMCHCGKGAKGFTP IPGTIEMLHPWNNEGAPPEDKV VPSFLPVDQGGSLVGRNGVGG MAKEATMKRKVSSASIVKGQH EMSEMDGRWEEHRSLLSGRAT QFTGATGAI\MTTETTITARATG ASRDVAGAAQAAVALNEEFLK NYFTDKAASYTEEDENHTAKD CLLVYSQEETESLNASIGCCSFI EGELDDRFLDDLGLKFKTLAEV CLGQKIDINKEIEQRQKPATETS MNTASHSLCEQTMVNSENTYS SGSSFPVPKSLQEANA EKVTQEI VTERSVSSRQAQKVATPLPDP ASRNVIATETSYVTGSTMPPTT VILGPSQPQSLIVTERVYAPAST LVDQPYANEGTVVVTERVIQPH GGGSNPLEGTQHLQDVPYVME
10277	40645	A	10338	5	354	RPRLTSQDIKKPDC/DGEDAIGR GFEC DGLHLEKIVHFALHLEKN VNQSLLELHKLATDKNDPHLC DFIETHYLNEQVKAIKELGDHV TNMHEMGAPDSGVAEYLFDKH TLGDSDNES

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10278	40646	A	10339	1	2024	GEALMYHTHFSELLDEF SQNVL GQLLNDPFLSEKSVSMEVEPSP TSPAPLIQAEHSYSLCEEPRAS PFTHITSDSFNDDEVESEK WY LSTDFPSTSIKTEPITDEPPPGLV PSVTLTITAISTPLEKEEPPLEIEQ WGLIPRARPLFPKIKLEPHEVDQ FLNFSPKEAKHLHIFPSWAAC CGSSGNSAIRIILAYSLALRVPT ETKKPRDLFGKTGREKGKEETS REKLYVAERERKAPVDHLHLPP TPSSHGSDSEGSLSPNRLHPP SLPQTHSPSRAAPRASALSSSP LLTAPHKLQSGPLVLTTEEKR TLIAEGYPIPTKLPLSKSEEKAL KKIRRKIKNKISAQESRRKKKE YMDSLEKKVESCSTENLELRKK VEVLENTNRASHGELVIGVLGK GRRWDPLLTSPHAGDQCLGSV QGWAGECTPRQLDGSRTTLISE EDPGSPMGGEALGAIVSYA WRGREALHASRVGAVIQAPIA AGSDICLSDIRESATSSQTNISVT RTLLQQLQKLQTLVMGKVSRT CKLAGTQTGTCLMVVVLCAV AFGSFFQGYGPYP SATKMALPS QHSLQEPYTASVVR SRNLLIYE EHSPPEESSSPGSAGELGGWDR GSSLLRVSGLESRPD VDLPHFIIS NETSLEKSVLLELQHLVSAKL
10279	40647	A	10340	1	489	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10280	40648	A	10341	1	2665	MESTLTLATEQPVKNTLKKY KIACIVLLALLVIMSLGLGLGLG LRKLEKQGSCRKKCFDASFRGL ENCRCDVACKDRGDCCWDFED TCVESTRIWMCNKFRCGETRLE ASLSCSDDCLQKDCADYK SVCQGETSWLEENDTAQQSQ CPEGFDLPPVILFSMDGFRAEYL YTWDTLMPNINKLKTCGIHSKY MRAMYPTKTFPNHYTIVTGLYP ESHGIIDNNMYDVNLKNFSL SKEQNNPAWWHGQPMWLTA MYQGLKAATYFWPGSEVAING SFPSIYMPYNGSVPFEEISTLL KWLDLPKAERPRFYTMYPEEP DSSGHAGGPVSARVIKALQVV DHAFGMLMEGLKQRNLHNCV NIILLADHGMDOQTYCNKMEYM TDYFPRINFFYMYEGPAPRIRA HNIPHDFFSNSEIIVRNLSCK PDQHFKPYP LTPDLPKRLHYAKN VRIDKVHLFVDQQLAVRSKS NTNCGGGNHGYNNEFRSMEAI FLAHGPSFKEKTEVEPFENIEVY NLMCDLLRIQPAPNNGTHGSLN HLLKVPFYEP SHAEEVSKFSVC GFANPLPTESLDCFCPLQNST QLEQVNQMLNLTQEEITATVK VNLPFGRPRVLQKNVDHCLLY HREYVSGFGKAMRMPMWSSY TVPQLGDTSPPTVPCDLRAD VRVPPSESQKCSFYLAADKNITH
10281	40649	A	10342	590	900	PLYSATVPSAFCSGQ/LVPHIKS FCRLNIFNR*LIELRHLVFFVLLL FRDLQHIMACNMRDAVRFFVC FLVIFFREGLSRSSCQKCSRKSQ NCGLFYNNFDDVHVH
10282	40650	A	10343	1	804	
10283	40651	A	10344	207	299	
10284	40652	A	10345	738	1007	EDASCDEGSTARAVHSMEPAG ARNRQKPHPFQVRGAEPHPW* RCSHPA VAVDPGIHALSGKPLC SWRLGSDLPTVWPLTPDPPVS VS
10285	40653	A	10346	150	509	QLPAGSGEGPYHLEGQLSYCHR GGEKALAAALLSSPTSKTRSPSEP DPEQDEQKLRFCRHL YGQQP RSPVEIRLQHVAIA YQTHHAYD *FVQLYNQHVAQPVLEFPYPGA VVALLSRHL

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10286	40654	A	10347	120	620	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKLHLLGDNRYPIW IMQPSAHHPARQPEHDNHFR*V QQLYDGDSDHRQFL*HQILFDRT PVSVDQSVEKKG*DHPVRPQ*A APGHVHYLTIPERSSQHYHPGA LQE*TSHPDHIQARGSILASVLS GSDRWRRRTYRCL
10287	40655	A	10348	599	1185	MCQNLMTHSKSTEWKITKRFL TETEKHIRTFSLSMKAIHHPA/H NHTLRDPHYVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFRKESQKLQQSACKR DAELANGALGHIELNNDYTSEK SNEAADHFKHVPQAKGNNVVI TSYMTNRGFFEDKKATFAPSFL MNIKGNKTSVVKNSILEQQQLT
10288	40656	B	10349	1	975	
10289	40657	A	10350	1	1080	
10290	40658	B	10351	58	1128	
10291	40659	B	10352	1	1029	
10292	40660	A	10353	10	108	
10293	40661	B	10354	208	2237	
10294	40662	A	10355	1	1153	
10295	40663	A	10356	1026	1274	LHIEKSNEAADHFKHVACHR*R *ACTCHCNPWFPRPLPQPDCE TSATVEPPLYPIRSRGRTRKPAE GSRAPGCCCCQRP GK
10296	40664	A	10357	434	1128	MCQNLMTHSKSTEWKITKRFL TETEKHIRTFSLSMKAIHHPA/H NHTLRDPHYVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFRKESQKLQQSACKR DAELANGALGHIELNNDYTLKK VMKPLITSNTVTDEIERANVFK MNGKWYLF TDSRGSKMTIDGI NSNDIYMLGYVSNSLTGPYKPL NKTGLVLQMGLDPNDVTF TYS HFAVPQAKSNNVVNYGA
10297	40665	A	10358	300	491	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKLHLLGDNRYPIW IMQPSAHHPARQPEHDNHFR*V QQLYDGDSDHRQFL*HQPAQKY FQQIHSAI GLHNADHVHKLHLLG DNRYPIWIMQPSAHHPARQPEH DNHFR
10298	40666	B	10359	1	1226	
10299	40667	A	10360	1369	1548	
10300	40668	A	10361	1	1365	

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10301	40669	A	10362	1560	2384	MCQILMTHSKSTEWITKRFLTE TEKHIRTFSSLSMKAIHPA/HNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLFDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGNNVVITSYMTTRGFFE DKKATKAPSFLMNIKGNKASV VKNSILEQGGQLAVN
10302	40670	B	10363	783	881	
10303	40671	A	10364	1	1359	
10304	40672	A	10365	1512	2010	ENFPHQPAQKYFQQIHSAILH NADHVHKHLLGDNRYPWIMQ PSAHHPARQPEHDNHFR*VQQL YDGDShRQFL*HQILFDRTPVS VDQSVEKKG*DHPVRPQ*AAP GHVHYLTIPERSSQHYHPGALQ E*TSHPDHIQAK*WHYR\GHYS YARN*RIHHRGSWCR
10305	40673	A	10366	62	368	TGARRVPWPRRGARLRGRARA RSDESGSAGDQPPSFPWWGW RWVTTAASPANLWPSVARSTM VDRAINL/FFLKMKGDLALTED KREQAQNEQSAWKFTPGR
10306	40674	A	10367	2	305	CTINNPKSF/HGVGFKQHAPQA LTEIQKFAMKEMGTPDVRIDTR LIKAVWAKGIRNVPYRIRVRLS RKRNEDEDSPNKLYTLVTYVP VTTFKNLQTVNVNEN
10307	40675	A	10368	129	283	HLILLFLKHKYCFAREEEEEK*R GVGEEEEEEEEEEEEEEEEEEI FKSIVY
10308	40676	A	10369	777	1755	DIWDQTEHQSSGPWSYGTSTDP E\PTSDLAIVIFEKRGGESEEE KEEEEGR\EEEEKEEEE\GRRR EEEKEEEEEEEE\GRRAQEEEE KKEEEEEEEEWCLGEEESQPG HAEVPSPHKMGA\TLRVEGV KEQEAKLLRSSDLMKGDFSSTS QHPPQCSKRTNSESNAKSKK KERPIMTFRQRKTFRIRILPLQ GRIAGSNKLSAKLCTDGRGAG DVGVLTVMLKRLHFTIDHFLF KIIQMSPSASWNLWSLLDQDSL KCQICLEGYAQGGKPDVQLLPP RLTADWKGHRWGQMMGLDE KLTPSSVMVTSVALFWFEVSAQ

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10309	40677	A	10370	1	444	
10310	40678	A	10371	1	3799	MNRQLSKEDIQMANKHEKML NITNDQGNANQNHNAIQPYSC KNGHNRKIDVSMNMVNREHFY TAVHKASDLSFKPTSEKDLDTK LQANFPNLVKAPDKARICFCGK PYQPYVQGSPNSPVEIVENEPSQ LLHFLCVGSSKEEIDLGPNPKGS QHTGLGHSMGKCNFYFYPILLV HGWKSHLHPCVASMKVAGTQ RTQDQDEAQEKEKRDKRKAEA LVAALQTYKTQNPQGAPANCY KCGKLGHFKKDCHSSKRKPL
10311	40679	A	10372	1	990	MTQKKNQTEQKEQKNEQKKQ HNERKEHKKKQTEYKTHETNR PRKTERAEHDEQKRENEGKRR RHKKRT/RERKKTNEETETRKG REKPEQARQARKEKQKRQRGE RQ\KEEKKRKNRQENEEEEAN EQDRREQKEETRKRGPRKRRE HKEEEGRERKKRKRKTKEKG RRAQKERREEEQQRRRRRR GKRKKNESEDEEDKASNHRQ QERERQKRKGAEARRPAETG RRRRKRKRQRKA\AKQRQERQ GDGVLPCAPWTAHPRQPSQCW SARAPGGSAPRPRRYLLTGQA NGSLAMWDLTTAIGRPRPGPCR WPDGARADGTAGTL
10312	40680	A	10373	99	1365	KEAEGRALARLLGPSEERFAAH EGMRPMAVFTRQGHIFTTGT RMSQRELGLWDPNNFEEPVAL QEMDTSNGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRG\M GFMPKRGLDVSKCEIARFYKLH ERKCEPIIMTV\PRKVRAWRD LGRRSDAVPRIRQGPEPALEAD EWLSGQGRNPCSFSRLR\DGYC CPPTHRL\LRVTKRNILDVRPPS GPRRKPSRPATPPCRSSTPLETL LEEIKPLRERVQAQEQRITALEN MLCELVDGPHYPRAPGRASGL PTDPFGGAVRRACVPPPLVPL ARAVRTLPLRYASSIAALVERM KAHMWAKGRATRDATKRCS PMAQTTTQHLHVPCDREDES RWNICCS

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10313	40681	A	10374	1	361	MINPNPERSDDL VFWGLFRAG GMWSAIIAPVMILLVGILLPLGL FPGDALSYERVLAFAQSFIGRV FLFLMIVLPLWCGLHRMHAM HDLKIHVPAGKWW\FYGLAAIL TVVTLIGVVTI
10314	40682	B	10375	70	256	
10315	40683	A	10376	224	414	LRWRSLPAFQSGNLSVPAALM NRANARGEAVCVLGRSSRFLA H*LAALGRSAAASGISSLKGG
10316	40684	A	10377	439	595	RAISCCPSHLVKKRTTLAPNTQ TASPRALADSLMQLARQVSRLE SGQ*AQRN
10317	40685	A	10378	1	391	FSSGTVPGDRPDREFIGDTLME RRNRRTGRTEKARIWETANTL AITMLMST\AMPAAAADGVTFS VPVTPHTFRHSYAMHMLYA\GI PLKGLQSLMGHKCIRSTGRLPQ RFLGLEWGLPGHPGGRlamae
10318	40686	A	10379	278	694	GHRSP LAIAGCPTIQNGAGPQC AAITRVRAARWCGYPPGSGIPTI PEDSFMLYPRALTTHQTGFSPA WGKPSVDRLLATLSGPGGEGQ YSCCPSHLVKKKTTLAPNTQTA SPRALADSLMQLARQVSRLESG Q*AQRN
10319	40687	A	10380	2	371	SVQVFIRDKLMERRNRRTGRTE KARIWAEVTDRTVRTCDGGGL PAAAADGVTFFCSAPPNIRFR\H SYA\MHMLYAR*YPLKGLLSPI G\HKCIRSTGRLPQRFLGLEWG LPGHPGGRlamaeV
10320	40688	A	10381	276	508	
10321	40689	A	10382	464	763	
10322	40690	A	10383	1	715	MQHLSHGSRRHILISENFRGCQ DQAVSQTLTRPPLVSKEASFF LLPFDLHVLGLPPAFNLSDQT LQFKSLTLVTSVRVPLEVARPG LSMLGLLRFMSSLLAVGDMGQ GDQVEFQDTKGNSEGRASSQPP MTPLTPTRVRRCPGGPTWGAK AEGVGRAEAATADPGSEGDVV LSRTGLLLAGLLHYFRGRHHLE EIMYNENTRRSQLLMLFDKFRS VLV\VTTHEDPVIAVFQALLP
10323	40691	B	10384	72	195	
10324	40692	A	10385	1	2331	

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10325	40693	A	10386	1	706	MTTSRSDTRSQDDPSAHLASPK LPQRLPKDLSEAQVERLLQAPLI DQPLELRDKAMLEVL Y ATG\LR VSELVGLTMSDISLRQG V VRVI GKGNKERLVPLGEEA\VHWLET YLEHGRP W LLNGVPINVLFPSQ RAQQITRQALWRRINHYDELA GIDSEKLSPHVVRHAFATYFAG SGGCIADFCGGSCAGSSAAESC LWFAGTGLYLHHA W VS G VWS RECSGAAWRDRRDVGGGE
10326	40694	A	10387	39	209	EPGTYVYNETDKSHSPCRPCVL LS**GIYLG S V*R*NGITYGALL AHIPNKFQVDY
10327	40695	A	10388	2	930	AWTHAGILLKHKYSFLVGCASI SDVIAQVV F VAILLH\SHLECRE PLLIPILSLYMGALVRCTTLCL GYYKNIHDIIPDRSGPELWGDA TIRKMLSF W WPLALILATQ R IR RPIVNL F VSRLGGSSAATEAV A\LTATYPV\HMPY G WLTEIR AVYPAFDKNNPSNKL V ST S NTV TAAHIKKFTFVCMALSLTLCFV MFWDTQ R V*GKSLIDIIGSGLW PLQELCV\PLWIFSFFPVPVTV RAHLTGWLMTL\KKT F VLAPSS \LRIIVLIASL\VL P YLG V HG ATLG\VGFL\LAGFCGENSTMG
10328	40696	A	10389	1	1389	GDATIRKMLSF W WPLALILATQ RISRPIVNL F VSRLGGSSAATE AVAILTATYPVGHMPY G WLTEI RAVYPAFDKNNPSNKL V ST S NT VTAHIKKFTFVCMALSLTLKD SVQKPDISLTGRLVQTLPTMR HQRGESKD V APLASWLSEPSTS SEASQTSSKLTINSQEGKAKQ KLECGT S IVLRSCEKNQERIK AEKRNRSWTTLCGLGAWRPLL FELPVIVQTPDQTNRFQFRYP KTQSGLC S FFH S FDLLTLEAFV KVWFPGCLLILIEYASSKNRKS KMLQNLKLLSADMTL K LCFVM FWTPNVSEKILIDIIGVDFAF LCVVPLRIFSFFPVPVTVRAHLT G\FLMTLNY\TFVLAPSSVLRIIV PHRPASWVLPY\LG V HGATLG V G\SLLAGFVGESTMVA\LATCY VYRKQKKK M ENESATEGE\DS AMTDMPTTEEVTDIV\EMREEN

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10329	40697	A	10390	57	556	TGRCTCHDRHYWYSPVERIAY NVEAAR\VEQRTDLDKLVIE ME TNGTIDPEEAIRRAATILAEQLE AFVDLRDVRQPEVKEEKPEFDP ILLRP\VDDLELTVRSANCLKAE AIHYIGDLVQRTEVELLKTPNL GKKSLTEIKDVLASRGLSLGMR LENWPPASIADE
10330	40698	A	10391	536	787	GRD*PDYAENAHVMPPVVED ASDMLLAITQAGRMLMFPVSD LPQLSKGKGKNIINIPSAEAARG EDGLAQLYVLPQSTLTIH
10331	40699	B	10392	868	900	
10332	40700	A	10393	1	278	MNPQEANYAYLRG/EVELVRLP DAEGRIAAE/GALPYPPGVLALE EGI/NLLPGFAPELQGVYIEE/HD GSGIIMLPTKLAEVGTI
10333	40701	A	10394	1	811	
10334	40702	A	10395	1	682	
10335	40703	A	10396	442	546	
10336	40704	C	10397	1	1776	
10337	40705	A	10398	2	1354	YFSPAAMKALDLLIKWTRSDQ NLGGCNTGLIRPISPIVLIYKLVI GEQMIDVLGPEKRRRRRTTQEKI AIVQQSFEPGMTVSLVARQHG VAASQLFLWRKQYQEGSLTAV AAGEQVVPASELAAAMKQIKE LQRLLGKKTME NELLKEAVEY GRAKKWIAHAPLLPGDGDCTS FSDEPMTGWMAAAVVTL MIR MCFSVYTMLSESCQRMVIVGY GRR\PDRQNLMIQGSKP/SIFRQF C/PDFEHLQEPYE/LLWE/MYGN RGYLQLVSFMQKFIDQSIFANT QYDPSRFPSGKVPIQQLLDLL TAYKFGVKTLYYQNTRDGAED AQDDLVP SIQDDGCESGACLIR RASVASGSGCRMQRERLILATA RICRPDKTRQRRIRHRMRRKMP YPALNSQQDTLMAYTTFSQTK NDQLKEPMFFGQPVNVARYDQ QKYDIFEKLEKQLFFLLASGRS
10338	40706	C	10399	1	1269	

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10339	40707	A	10400	1	1909	MGFHHVAQAGFELLISDLPAL ASQTARITAREARAPVEENKKA QLERDKQLSEQQKQAALAKE KAQVKQLIEMNRITIANGDIGF NFTDGNLIKKIFVDKLTQAQLIN GRLAIARLLVDNNSEGEYAIIPA SVADKIAQRDASSIVLHSALSA EEQDEDDPYADFKVPDDLWMP TVYGRSVDRIIRSRIRQSCAM PDATLCASYQAYGLRAKHPSFS SQGVPHCVDPVTLKIASEAPSPI VGGTLPVPMTSQPSVTSMQLL LDLDTIPNEPLHYDWEALRESI KTHGLRNSTLSALMPSETSSQIS NATNGIEPPRGYVSIKASKDGIL RQVVPDYEHLHDAYELLWEMP GNDGYLQLVGIMQKFIDQSISA NTNYDPSRFPSPGKVPQMQLLK DLLTAYKFGVKTLYYQNTRDG AEDAQDDLVPISQ\DDG\CESGA CLIRRASVASGSGCRMQRERLI RPTARICRPDKTRQRRIRHRMR RVLPGRATRDRDPSLEAGYQW LPGRGLVIEPQAQVMYQGVQQ DDCTAASRARVSQSQGGDIQTR LGLHSEWRTAVHVIPTLDLNDY HDPHSTEIEEDGSTISDDAVKQR GEIKVGVTGNISQRVSLRGSVA WQKGSDDFAQTAGFLSMTVK
10340	40708	B	10401	1	1329	
10341	40709	A	10402	1419	1788	ALTSVLPRPSVHW*\SPKPRNVD WHIGRGVAIIMQKSGIPDIDQA NCMIKLESDGTFIVHSGGADIG TGLDTVVTKLAAEVLHCPPQD VHVISGDTDHALFDKGAYASS GTCFSGNAARLAAEN
10342	40710	A	10403	73	477	SMFPRIPFGY/WHI/GSRVAIICQ K/SGIPDIDQSNLHDQLESHGTFI VHSG/GFDYGTGLDTV/VLTKL AAEV/LHCPPQDVHVISGDTDH/ ALFDKGAYASSGTCFSG/NAAR LAAVNPRALAYSYG GGGGARV CIWGGWGRR

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10343	40711	A	10404	1	756	MSIAYQEIPQNERLRSDSSITS VVEYLLAVVARSVYTSPDMAIF REHHSYMSLSMAACRKIRPCPQ ELPRSIPHMISAMWSQSAPDHV VQHEREQQSGFGDGTESHSTSD SNTEVRQNCSPPIGGVRNHRAL RGHQPAELEPENILKLLMVAE RKAHKGWYYSGDLCRMDEAG YIKITGRKKDIIVRGGENISSREV EDILLQHPKIPNA\CMGAMSDD RLGERS CAYV\VLKAPHHSLSL EEVLCWRGC
10344	40712	A	10405	252	1245	GSRLPGASITRSLEFIAGQAVK FNLLPVSLVKRNTTLAPTHT ASPRALADSLMQLARQVSRLD SGQRSVVFVRWSRRSIIVDSHA GLITTQRALGQSDMYRGSPLISE LRIIGPRHLRGVLRVRLCPFSE PMLVECNPLLPSLLIIREPSLEPT LRFASRIALPDS'TVLQIFSGVLP LSSGQAYIQFTYSETPRSTPREA NSAHILSVHQWKCQHIVMAAR VKVGYPQWTPISLSAGLSAVLY KPVERGGRCSHSCSTALSPQGF LSSLLRFISEGVFKSFTDKQMLR DFVTTRPALIVLLWQPLNVEGT SSTSHCIIMPTCNDHRD
10345	40713	A	10406	269	432	
10346	40714	A	10407	332	933	RVSRGRKVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNRFTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQDFRLLGQ\TS VDRLL\QLSQGQAVKGNQLLPV SLVKRKTTL\APNTQTA\SPRAL ADSLMQLARQVSRLESGQ*AQ
10347	40715	A	10408	1	531	MRWKIDLARISKEIIDFYITQGV NRIGFIAGEDEPGKADIREVAFA EYGRKQVVRREEDIWRGGFSSS SGYELAK\QILARKDYPKPLFV ASDSIAIGVLRAIHERGLNIPQDI SLISVNDIPTARFSFPLSTVRIH SEMMGSQGVNLVYEKAPDGR ALPLLVFVPSKLLKRGTR
10348	40716	A	10409	1	1059	
10349	40717	A	10410	2187	2429	

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10350	40718	A	10411	1	835	MRPFGDYPDGGIDDLKISFSVP AAGVGPHFDQYDVFIQGTERR RWRVGEKLQMKQHCHPDLL QVDPFEAIIDEELEPGDILYIPPG FPHEGYALENAMNYSVGFRAP NTRELISGLPDYVLQRELGGNY YSDPDVPPRAHPADVLPQEMD KLREMLLAELESTHPDPFKQWL EFISQSRHDLDIAPPDPYQPDE FSDALNQGKVLGALGGLRVLR MGDAVYPNGEKMDSPRPALD ALASTIALTAKNFGDALEDPSF LAMLAAALVNSGYWFFEG
10351	40719	A	10412	249	474	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
10352	40720	A	10413	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
10353	40721	A	10414	342	528	
10354	40722	B	10415	32	587	
10355	40723	A	10416	1	2141	
10356	40724	A	10417	1	748	
10357	40725	A	10418	321	411	RNRDRYKQWKQDFFHDSYNR QRCGCWRLYRRHHR*CRRYRR QQPHLCRLYES*KKSCFHCLYR SRF/RLRVKYPRDMYSLGTFL RSPVAIRIPLSRNQVKR
10358	40726	A	10419	1	2235	

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10359	40727	A	10420	1	1884	MGKDFMTKTPKAMATKAKID KWDVIKLSFCTAKETTIRVNR INKIDKPLARLIKKKREKNQIDT IKNDKGDITTDPTETIQTIREYY KHLVTNKLENLQEMDKFLDTY TLPRLNQEEVETLNRPTGSEIV AIMNSLPTKKSPGPDGFTAIFY QRYKEELIILIPK/PGQDTTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINVIQHINRAKDKNH MTISIDAEKAFDKIQPFMLKTL NKLGDGTIFYKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLLFNIVLEVLAIRAEKEIK GIQLGKEEVKLSLFADDMIVYL ENPTVSAQNLLKLISNFSKVSQ YKINVQKSQAFLYTNKRQTESQ IMSELPFTIASKRIKYLGIQLPRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VTYRFNAIPIKLPMTFFTELEKT TLKFIWNQKRARIASILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNVRPKTI
10360	40728	A	10421	1	822	
10361	40729	A	10422	2738	2949	
10362	40730	A	10423	1	1134	
10363	40731	A	10424	1	2118	
10364	40732	A	10425	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSITGHVH HQ
10365	40733	A	10426	2	1624	
10366	40734	B	10427	1	3690	
10367	40735	A	10428	1	1056	
10368	40736	B	10429	1	2265	
10369	40737	A	10430	1	2037	
10370	40738	A	10431	1	2406	
10371	40739	B	10432	670	2568	
10372	40740	A	10433	3	4072	
10373	40741	A	10434	1	3171	
10374	40742	A	10435	1	1542	
10375	40743	A	10436	1	1008	
10376	40744	A	10437	1	2241	
10377	40745	B	10438	1	2682	

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10378	40746	A	10439	644	949	MRKPTLGRTYPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSTGHVHHQ
10379	40747	A	10440	1	1088	MARKDIQVLIIGTYEYYLVKGE KVLTLAIKLVKWSGYPLC LPEYHLGEVEGEDDMEVTAMD GRCLEVKQGSERLQVADQECV GDGSGRLCPFDRCECEQRLQLV RPGLCNPRAIALTTKPQSPSPNI KRLVIGEQMIDVLGPEKRRRRT TQEKIAIVQSFEPGMTVSLVA RQHGAASQEGSLTAVDAGEQ VVPASELAAAMKQIKELQRL GKKTMEENELKEAVEFYGRAKK WIAHAPLLPGDGERTDDWMDG RRSRHTDDTDVL*SASWRQQV QRREQPVLRRRQQ*DFLGWL LHHVAGQRGRSPSPVQSSAEQL RSFPVWYAVCVSPALRHQSSVL
10380	40748	A	10441	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENFDDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNMN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQQEELTILKIYAPNTGAP RFTKQVLSDLQRDL
10381	40749	A	10442	1	2445	
10382	40750	A	10443	1	1428	
10383	40751	A	10444	1	2478	

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10384	40752	A	10445	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTITREYYKH LYANKLENLEEMDKFLDITYTL PRLNQEEAESLNKPITGPEIEAII NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFNHKLINVIQYINRTKDK NHMIISIDAEKASDKIQQPFMLK TLNKLIGDGYLKIIRAIYDKPT ANIILNGQKLEAFPLKTGTRQG CLLSPLLFNIVLEVLAIRQEK EKKCIRLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGQLT RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRDVDQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSLFNKWCWEIWLAIKRKRK LDPFLTPYTKINSRWIKDFNIRP KTIKTLEESLGIQDISMGKKFTS
10385	40753	A	10446	2	541	
10386	40754	B	10447	1	1533	
10387	40755	A	10448	753	1468	LVTSYSLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10388	40756	A	10449	753	1468	LVTSYSLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR

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10389	40757	A	10450	753	1468	LVTSYSLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10390	40758	A	10451	753	1468	LVTSYSLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10391	40759	B	10452	1	2259	
10392	40760	B	10453	1	684	
10393	40761	A	10454	1	1419	
10394	40762	B	10455	1	462	
10395	40763	B	10456	1	915	
10396	40764	B	10457	1	1659	
10397	40765	A	10458	1	1659	
10398	40766	A	10459	1	1224	MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYPGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVERINIVKM AILPKTAKNGPVLPLHSEEKIP FN\FH*LFR*TITATKA*QKRR* MCQNLMT\H\QNQRSGRSQIYF* RRRKNI\SDRS\AVYR*RQLYIRR QPYAERPS\HVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFCKESQKLQSSAKKR DAELANGALGIIELNNDYTLKK VMKPLITSNTVTDEIERANVFK MNGKWYLF\TDSRGSKMTIDGI LPISDPTIKQDFRLLGQTSVDRL LQLSQGQAVKGNQLLPVSLVK RKTTLAPNTQTASPRALADSLM QLARQVSRLESGQ

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10399	40767	A	10460	1	2241	MEDEMNMKQEEKFREKRIKR NEQTLQEIWVDYVKRPNLHLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRMPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSMRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDAFKA/EIQTTIK EYYKHLIYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA EFYQRYKEELVPFLKLQFSIEK QGILPNSFYEAETILIPKGRDIT EKENFRPISLMNIDAKILNKILA KRIQQHIKKLIHHDQVGFIPGM QGWFNHKSINVIQHINRAKDK NHMIISIDAEKAFDKIQRFML KTLNKLIGDGYFKIIRAIYDKP TANIILNGQKLEAIPKAGTRQG CPLSPLFNIVLEVLRVIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVTAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIMKMAIL PKVIYRFNAIPIKLPMTFFTELE KTK\FIWNQKSAHITKGILSQKN
10400	40768	B	10461	1	1254	
10401	40769	A	10462	551	868	SIQHWSRISSRLVYRSKAVAAA LLPMNCSLWSTQAGFLPRFG*R *TRHLSTIEPEDYNLLFRRVSLK LSVWLPTWQSKSNGWSQKCL WMHLKFDSL NALLPPTGF
10402	40770	A	10463	1	2985	MEDEMNMKREGKFREKRIKR NEQSLQEIWVDYVKRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFTTCICDDAEDLQSPSTA GPWFGVLYTKGGPYPQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPNQCH IGEVL LDGFTA EFYRRYKEELV PFLKLQFSIEKEG
10403	40771	B	10464	1	2277	

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10404	40772	A	10465	1	1064	
10405	40773	B	10466	1	1827	
10406	40774	A	10467	1186	1208	ATKMVRLSVAALVQRMKEFCA AKFPAVITCWWSVWAQSA*WR *CWRKTKI
10407	40775	B	10468	1	1992	
10408	40776	A	10469	1488	1920	RVRVTAVITERDCVSRSRWTAV IVRHCTGRSLPAASTVKQYRTS CWERWN/CRFGNDLPSSPVEWL TDN/EFMLPG**NTPVRPDVGLE PT*TRAACQESRCN/RLTPGIVL EIIGVWMQQRWSLECLAIPICFG WLPRVVGEESGA
10409	40777	A	10470	1	1659	
10410	40778	A	10471	1	987	
10411	40779	A	10472	1	1278	
10412	40780	B	10473	1	1556	
10413	40781	A	10474	1	1905	
10414	40782	A	10475	644	949	MRKPTLGRTYPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10415	40783	A	10476	1	1217	
10416	40784	A	10477	83	1134	
10417	40785	A	10478	2450	2607	

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10418	40786	A	10479	1	2604	MPLRAFNVPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQVDDDHQGLQGS AALTSLSIIGPLIVTAIYAASAS TWNGNRACSSSVTRIVSILSRFI GIITPMNRNPPYTEASVTQKEK TALNMARFIRSQTLLLEKLNE LDADEQADICESLHDHADELRYR SCLARFGDDGNSYDHDYAKLA CLQVEGRGGGTFAHELLAVEY AGWISPAFRLKVNQTTFIDYRTG RLQPAIPQSLPEALRLAADLAE QKQRLEQKMLMDAPKVEFAER VATASGVLIGNYAKVLGLGQN YLFTWLRDNGILI/CNR*TQERP QTRIHISWVFH/LLKKP*SIQAM EAG/LSFTTRITGKGQQWLMKR LLDARNRDYKQWKQDFFHDS YNRQSAGHILSQCANLAATTSE YFIHKPHRLIAAETGYSQSTVV RAFREA VNKGILSVEIVGDHRE RRANLYRFTPSFLAFAQQA KNA LIESKLKISSAATKVKAVLAKTL ALFNFLSTPPCQNDTPSPCQDD VAIKNKKSQVKKTKRSVSGGA GTTSLKKLTSWIAKAKAKADN LRLSKKRTQKHEFKQKVEAAA RKYAYLKNKRSPDIGGISNFDN
10419	40787	A	10480	1	2559	

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10420	40788	A	10481	1	1676	MLNGEKLAVKQEALLAAISEK DANIALLELSSSKKKTQEEVAA LKREKDRLVQQLKQQVEGRGG GTFAHELLAVEYAGWISPAFRL KVNQTFIDYRTGRLQPAIPQSLP EALRLAADLAEQKQRLEQKML MDAPKVEFAERVATASGVLLIG NYAKVLGLGQNYLFTWLRDN GILIATGERRNVPKQEYISRGYF TLKETVIDTSNGSRISFTTRITGK GQQWLMKRLLDADVVRTTSIV MLAKVTFLSCITMSDFTFSGYE LACFVTHSGLSRSAGHILSQCA NLAATTSEYFIHKPHRLIAAETG YSQSTVVRAFREAVNKGILSVE IVIGDHRERRANLYRFTPSFLAF AQAKNALIESKLKISSAATKV KAVLAKTLALFNFLSTPPCQND TPSPCQDDVAIKNKKSQVKKTK RSVSGGAGTTSLLKLTSWIAKA KAKADNLRSLSKKRTQKHEFKQ KVEAAARKYAYLKNKRSPDIG GISNFDNLPHCMTVNEALNAVL AKNKDNEQWGAVAGAYIADIT DGEDRARHFGLMSACFGVGM VAGPVAGGLLGAISLHAPFLAA AVLNGLNLLGCFLMQESHKG ERRGELLKIVVLPGDHVGQEIT AEAIVLKAISDVRSNVKFD FE NHLIGGAIDLQGGGGKPRCVS KSLMLH/CWHSCRLEPRWR*QR VQRIRL*VHP*AFFAPAVAFALP
10421	40789	A	10482	1	3213	
10422	40790	A	10483	1089	1373	
10423	40791	A	10484	2720	2968	TTTLVRLPCRSPKRRRIKALRSQ L RRKSILKPLLS*SR*STTK*RNTP CSQVSSLRLSTRYRRRMKHSV NLVWTWVPYSSAP
10424	40792	A	10485	2	2264	
10425	40793	A	10486	1693	1980	
10426	40794	A	10487	1776	2026	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSSNRACSS SVTRIVSILSRFIGI
10427	40795	A	10488	1323	2064	
10428	40796	A	10489	53	243	WTVPLGAVPPVRMHEGLGCW CKLNGEVCMMSGMCLLCWWD CD D*RHDLKANLDRLMNVCDQGR KR
10429	40797	A	10490	1	3117	
10430	40798	A	10491	1	1227	

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10431	40799	B	10492	1	2119	
10432	40800	A	10493	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSITGHVH HQ
10433	40801	A	10494	1	2822	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKETQ
10434	40802	A	10495	2	163	
10435	40803	A	10496	4051	4355	MRKPTLGRITYSPRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVL TKRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10436	40804	B	10497	1692	1781	
10437	40805	B	10498	1	3477	
10438	40806	A	10499	179	439	KKELVNLTDD*SLNLR/WIDVL GPEKRRRRRTTQEKIAIVQSF/G TGDDGLPRCPATWCSSQPVISL A*AIPGRKSYCCRRRRRTGCSC
10439	40807	A	10500	1	7456	MYQANGKQKAGVAILVSDKT DFKPTKIKRDKEGHYIMVKGSI QQEELTILNIYAPNTGAPTFIQQ VLSLDLQRLDSHTLIIGDFNTPL STSDRSTRQKVNKDTQELNSAL HQADLIDIYRTLHPKSTEYTFFS APHHTYSKIDHILGSKALLSKC KRTIITNYLSDHSAIKLELMIK NLTQNHSTIWKLNNLLLNDYW VHKEMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDT
10440	40808	A	10501	2476	2718	WPLRGRGGHRAAPGRHLHLQQ RLLLRLHLTACLLQDALDG/GP PRCWRGSCRWRCSAGPPRSWA RRPSATRSPSWPALECS

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10441	40809	A	10502	2	4517	HRLANWIKSQDPSVCYIPETHL TCRDTHRLKIKGWRKIYQANG KQKQAGVAIHISDKTDFKPTKI KRDKEGHYIMVKGSIQQEKLTI LNVYAPNTGAPRFIMQVLSDLQ RDLDSTLIMGDFNTPLSTLDR LTRQKVNKDTQELNSALHQVD LIDIYRTLQPKSTEYTLFSAPHH TYSKIDHILGSKALLSKCKRTEII TNYLSDHSAIKLELRIKKLTQIR STAWKLNLLNDYVWHNEM KAEIKMFFKNNEN
10442	40810	B	10503	88	501	
10443	40811	A	10504	1	971	MWALFMIRNVKKQRPVNLDLQ TIRFPITAIASILHRVSGVITFVA VGILLWLEYRLSYLKGSSKLR DYGQLLTLEIPAALLPIHTGIVN QNINCTETLTASSDNLLRR AFC GDTHLHEVHLNTLFFNHFLCFA VIFDETRNKDICATSGQHAHFV DKKRKRELLSHMIGKGNWQQV LVFTRTKHGANHLAEQLNKDG IRSAAIHGNKSQGARTALADF KSGDIRVLVATDIAA/RGLDIEE LPHVVNYELPNVPEDYVHRIGR TGRAAATGEALSLVRSFFDWC DDCAAAGGMGNRNAQLADGI YHLRCIELYLGDMADFL

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10444	40812	A	10505	1	2201	MSFDSLGLSPDILRAVAEQGYR EPTPIQQQAIPAVLEGRDLMAS AQTGTGKTAGFTLPLLQHLITR QPHAKGRRPVRALILTPTRELA AQIGENVRDYSKYLNIRSLVVF GGVSINPQMMKLARGGVDVLV ATPGRLLDLEHQNAVKLDQVEI LVLDEADRMLDMGFIHDIRRVL TKLPAKRQNLFSATFSDDIKA LAEKLLHNPLEIEVARRNTASD QVTQHVHFVDKKRKRELLSHM IGKGNWQQVLVFTRTKHGAN HLAEQLNKDGIRRAAKHGKNC KCAYSKFQKPSPHFTMLIGVC GVNQSAITNVSNVSNMAKISGS GSHRLTKRVIKRDMPINHPV AYSRRRLQTELLFWHARWLN HTRRQFRIKEGDNGGQCFLFLW TGRFNFNLPSFGRIQHQQRNNA VGFSLGAFVITFIAGRACMPSLF VISTVCLTMVYVFPAYDGV GRFYRASGSSLPVALQYTPNGA SRRYNQWRPSRMLSSLKKQKW RKGMSESLHLTRNGSILEITLDR PKANAIDAKTSFEMGEVFLNFR DDPQLRVAITGAGEKFFSAGW DLKAAAEGEAPDADFGPGGFA GLTEIFNLDPVIAAVNGYA FGGFEALAAADFIVCADNASFAL PEAKLGIVPDSSGGVLRPLKILPP AIVNEMVMTGRRMGAEELR WGIVNRVVSQAELMDNARELA
10445	40813	A	10506	1	168	MCEKNLAYAHKVKAALKGA SPGDFPREDYETNWEGRFTLA DLNIHGKRALGMDV
10446	40814	C	10507	1	3861	
10447	40815	A	10508	1	7407	
10448	40816	A	10509	290	661	QPLPEGRW/THLWHNDEL DGS RWHK/QQHGFSLP VYVRDNT LRALGNNDQRPDYVWHE/GTA FHLFN\KAARTGNTIT AIDASE ANNWTLCLRNGVKV NGLQDG SQAESQGLVVKPQGNALTITL
10449	40817	A	10510	3	510	KFHFMSPFPAHSMVQALE*LYA LGGLDKDCRLTEPLGMRIAEFP LNPMFAKMLLESGNFGCSQEIL SIAAMMQIQNIFVPPNHKSHAI RVHRKF AVEEGDHLTMLNIYE AFIKHNKDSKWCQEHLN YKG LVRAATVREQLKKLLVKFQVP RKSSEGD PDLVLR CIVS

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10450	40818	A	10511	1	1920	MIWGRAWWLTPTVIPALWAAK VAGRVAEERGAVLGHEVGYCI RFDDCTDQLATRIKRLTESFSLI LSVIMLDEAHERTLYTDIAIGLL KKIQKKRGDLRLIVASATLDAD EEVETVVSMLEIQAARALARTG MKRHRLRVLPMPYAGLPSFEQMK VFERVSRSVRKVIVATNVAETSI TISGIVYVIDCGFVKLRAYNPRT AIECLVVVPVSQASANQRAGR GGRSRSGKCYRLYTEEAFDKLP QSTVPEMQRSNLA PVILQLKAL GIDNVLRHFHMSPPPAQSMVQA LELLYALG\SLDKDCRLTEPLG MRIAEPPLNPMFAKMLLESGNF GCSQEILSIAAMMQIQNIFVPP NQKSHAIRVHRKFAVEEGDHL TMLNIYEA FIKVSTTTARSAAST HHPLEHNKDSKWCQEHFLNYK GLVRAATVREQLKLLVKFQV PRKSSEGD PDLVLR CIVSGFFA NAARFHSTGAYRTIRDDHELHI HPASVLYAEKPPRWVIYNE LL QTSKY YMRDVT AIESAWAVGS WLHTFYSTRERTCSLESQKGPR SRDPLRREPTVYSCRDCWRPLL HAAAPGPRWGELAPAPVECLV ALKWAAACSLVLSSRCPQHLH PCWDPGGLCAWAGILLCCSGQ SGSWLTQHAH
10451	40819	A	10512	3	414	
10452	40820	B	10513	62	1408	

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10453	40821	A	10514	1	1388	MGTSSIFLCVLFLCGALGLTMS PARGRLRCYICGFTKPCHPVPTE CRDDEACGISIGTSGCRGIFQVP DGQRDSRSHFPADVTKITWAC GQSPPGFKPLFPSCSSPKTGQM DVLIDLDFGFELRNRIWGEA IRDTEEKSADNLEPCSSPPPLEE VICCEGNAGFYEVGCVSTPLEA GYSVLGWNHPGFAGSTGVPPF QNEANAMDVVVQFAIHRFFH PQDIIIYA\LAIGGFTATWAAMS YPDVSAMILDASFDDLVPALK VMPDSWRGLVTRTVRQHNLN NAEQLCRYQGPVLLIRKTQDG NLTPTPVKDICSNRANCLLVKA LQ\HRYPG\VMAEGLLVARQW LEASSQLEEASIYSRWEVEED WCL\SVLR\SY\QAEHGADFPA SVGEDMSA\DGR\RQL\ALFLAR KHLHNFEATHCTPLPAQNFP PWHPLGTQLGLIMEEWGERRH
10454	40822	A	10515	1	1519	MGFLPKLLLLASFFPAGQASWG VSSPDVQGVKGSCLLIPCIFSF PADVEVPDGITAIWYYDYSGQR RVFMGNPEHRVCNLLKDLQP EDSGSYNFRFEISEVNRWSDVK GTLVTVTARSLSPGRHLETLH MAMSWQDHGRILRCQLSVAN HRAQSEIHLQVKYAPRGVKILL SPSGRNILPGELVTLTCQVNSSY PAVSSIKWLKDGVRQLTKTG LHLPQAAWSDAGVYTCAENG VGSLVSPISLHIFMAEVQVSPA GPILENQTVTLVCNTPNEAPSD LRYSWYKNHVLEDAHSHTLR LHLATRADTGFFCEVQNVHG SERSGPVSVVNHPKTPMTM VFVEPEGGLRGILDCRV DSEPL ASLTLHLGSRLVASSQPQGAPA EPHIHVLASPNA LRVDIEALRPS DQGEYICSASNVLGSASTSTYF GVRALHRL/LSVPAAALGPGTA/ VWASCSCCWA WGPATPGGTG YYLTGTYKSGGQTQMLSASLF
10455	40823	A	10516	3	615	
10456	40824	A	10517	373	631	SGGPD TDVVSIPYSCSRMHLCS *LCELLSFSWETLCRAVKENEL PKKE*RAPANQGPTGESSLSGL SDSPLQPGGDGVEERRALLF

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10457	40825	A	10518	1	5521	MANRFRSGEDSGGAIWQDCVE EGASELGFLSLLYTQGNDKQ CSLTNQGRQVFALLMLRKHL HVFVILFGPAGPAPPQLPSVEQ VPLSLVPGPKGVAVSRTPPFFH QVHDCPFQDPKWEEQGSWDKI AALAIAELTLTSPVARDTSDPQ CAQQAFLHGQASWGVSSPQD VQGVKGSCLLIPCIFSFPADVEV PDGITAIWYYDYSGQRQVVSHS ADPKLVEARFRGRTEFMGNPE HRVCNLLLKDLQPEDS
10458	40826	A	10519	1	1149	
10459	40827	A	10520	111	370	SHRRSLGEAARHPSFRPAGTAF E*VSQKVHPRDLEDRSACVPV GCSLTRESFFRLNNQPHGTRFLP IPSNPESSRAVPSAHLTV
10460	40828	A	10521	1	220	
10461	40829	A	10522	654	967	
10462	40830	A	10523	2	1415	
10463	40831	A	10524	2	293	CGKAFTQHSRLIQH/QRMHTGE KPYEYWEFGEKPRIYLQRKTFM KLDTTTGEGQSYQRNQMECP YGEKPCCKECKGKSFR/SSELT RHQRAHTGEKP
10464	40832	A	10525	51	378	GDFSPQKPPMAPHGCLTYLAFQ KVKEGKKEEKKEKKRKKERK KERKKERKKERKKERKRKEKK EEGKEGRKEGRKEGRKEGRKE KKEISKKEIVAPTSLNPLKCSVL
10465	40833	A	10526	1	235	
10466	40834	A	10527	545	793	NKEMHWPCTGLCSHPWGFK DCSLLE*RLPGQQEQNSIERKK RKKEKKEKKEKRRKKKGKKE ERKKERKYHFILLGMPTS
10467	40835	A	10528	127	376	
10468	40836	A	10529	3	710	EPG/NPERLK/GFSYPEFEDLDA LFSTLGLNEESVDSFDDYLPRR GVDSFGDKYQD/RCNSDQYHD GCQDRFRDGSQDMGQCGR D*DDD*GSRDYDRGYDSATGS CRRAFSGYLRDDDY\WESSET EQQPPTGSEGKVPPVQPSEERP AKKDENVKVDGMN/APKVQSGN SGRGPDGGNKDCWRESRDKD GKKDQVCRSAPESKKPEENPAS KFSSASKCAAVSVDGEDEKEG

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10469	40837	A	10530	1	548	MQRSENDILGMDLRPLICIKDE KEEVGEKEEGEKEEEEECEEQEE EGGKEWEEPGNYHLGQSLSHD WQSSETEQQPPTGSEGKVPVQ PSEERPAKKDENKVDGMN/APK VQSGNSGRGPGDGGNKDCWRE SDRKDGKKDQVCRSAPESKKP EENPASKFSSASKCAAVSVDGE DEKEGADYTK
10470	40838	C	10531	37	289	
10471	40839	A	10532	1	1062	
10472	40840	A	10533	1	1977	
10473	40841	A	10534	1	2050	LPLLHAGFNRRFMENSSIIACYN ELIQIEHGEVRSQFKLRACNSVF TALDHCEAIEITSDDHVIQYV NPAFERMMGYHKGELLGKELA DLPKSDKNRADLLDTINTCIKK GKEWQGVYYARRKSGDSIQQH VKITPVIGQGGKIRHFVSLKKLC CTTDNNKQIHKIHRDSDGNSQT EPHSFRYKNRRKESIDVKSISR GSDAPSLQNRYPSPMARIHSM IEAPITKVINIINAAQENSPVTV EALDRVLEILRTTELYSPQLGTK DEDPHTSDLVGGMLMTDGLRRL SGNEYVFTKNVHQSHSLAMP INHSM DVAPPCISQLLDNEESWD FNIFELEAITHKRPLVYLGLKVF SRFGVCEFLNCSETTLRAWFQV IEANYHSSNAYHNSTHAADVL HATAFFLGKERVKGSLDQLDE VAALIAATVHDVDHPGRTNSF LCNAGSELAVLYNDTAVLES HHTALAFQ\LT VKDTK\CNIFKN ID/RGNHYRTL RQAIDMVLATE MTKHFEHVNFVNSINKPMAA EIEGSDCECNPAGKNFPENQILI KRMMIKCADVANPCRPLDLCIE WAGRIS EYFAQTDEEK RQGLP VVM PVFDRNTCSIPKSQISFIDY FITDMFDAWDAFAHLPALMQH LADNYKHWKTLDDLKCKSLRL PSDRLKPSHRGGLLTDKGHCES
10474	40842	A	10535	2	445	ERTFNCCYPGCHF KTVHGMKD LDRHLRIHTGDKPHKCEFCDKC FSRKDNLTMHMRCHTSVKPHK CHLCDYAAVDSSSLKKHLRIHS DERPYKCQLCPYASRNSSQLTV HLRSHTGPGPADLLEHSRLHQ ADHPEKCPECSYSCSSAA
10475	40843	A	10536	1	957	

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10476	40844	A	10537	1	1438	MSRRKQAKPQHLNSEEPRPARR ECAEVAPQVAGEPASELDDDDV PKANCLSTESTDTPKAPVITLPS EAREQMATLGERTFNCCYPGC HFKTVHGMKDLDRLRIHTVP FCFSKVYWNGFQLGMISPPKGT MSGDIFDCYNWRRKGSTGICIW TGGGGTPICPGYHLCQIFVAILT KKPLTLTPYVFEGDKPHKCEFC DKCFSRKDNLTMHMRC\HTSV KPHKCHLCDYAAVDSSSLKKH LRIHSDEPYKCQ\PCPYASRNS SGLTVHLRSHTA\GDTPFQCWL CSAKFKISSDLKRHMIVHSGEK PFKCEFCDVRCMTKANLKSHIR IKHTFKCLHCAFQGRDRADLLE HSRA/LHQADHT\EKCEPSYSC SSAAALRVHSRVHCKDRPFKC DFCSFDTKRPSLAKHVDKVHR DEAKTENRAPLGKEGLREGSSQ HVAKIVTQRAFRCECTCGASFVR DDSLRCHKKQHSDQSEKQNL
10477	40845	A	10538	1	1427	MIAFDSMSHIQVMLMQEESTAP ATLEHILGHSQLCGSDGLAHAA VWVLAHLHYWFTGLSPGPM VLPLHPAIISSFHLWRVAFISKA GKPRAAGHLLKRFLRCQFQRA ASSLLFTTVEAMLGTESGTEKV MRGAGTWYHIIENWPSAECV WTEEYQQGRGQEDSAEDRKLF VGMLNKQQSEDDVRRLFEAFG NIEECTILRGPDGNSKGCAFKV YSSHAEAQAINALHGSQTMP GASSSLVVKFADTDKERTMRR MQQMAGQMGMFNPMAIPFGA YGAYAQALMQQAALMASVA QGGYLNPMMAFAAAQMQMA ALNMNGLAAAPMTPTSGGSTP PGITAPAVPSIPSPIGVNGFTGLP PQANGQPAAEEI\FANGIHPYPA QSPTAADPLQQAAYAGVQQYAG PAAYPAA YGQISQAFQPPPMIP QQQREGFVSFDNPASAQTAIQA MNGFQIGMKRLKVQLKRPKDA NRPY

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10478	40846	A	10539	1	547	AAAPMTPTSGGSTPPGITAPAV PSIPSPIGVNGFTGLPPQANGQP AAEAVFANGIHPYPAQSPTAAD PL\QQAYAGVQQYAGPAAYPA AYGQISQ\AFPQPPMIPQQQRE GPEG\CNLFYHLPQEFGDS\EL MQ\MFLPFGFRE/RFDNPASAQT AIQAMNGF\QIGMKRLKVQLKR PKDANRPY
10479	40847	A	10540	96	1080	WFKCYGCNSS/RDWQRSTYLLS WEVR/G/RVPDSGCKAVVALC SQPAHPSNICKGVGGCLTK\HLL LMGAMGIRVACLEVWRDGEER GGEEATFFTSLAERQVGTahrh LHQPALYIQRKVPAAALHMCVV QKPSLFQADSRAPLEQGLRQQA SLATARPIVSGANAGPAGLKVP QAAQLQLSPYLHRGVGDEACR YGRSQPTRKAFALCICAAPALP CPALDGSMVMVCGLGQETRSL ANVQSFTQRPQQQPLTVWMLN RGRKPAQGTLTVICPIGPHLLT STITESVCVPRRNKYHSRTLPA AQHCQWLVTAVPTALGLVIRA GSKKLC
10480	40848	A	10541	1	392	
10481	40849	A	10542	1	110	FFWSHS*VYYTCFLLQN*KHLK PGPSGSLSPISGN
10482	40850	A	10543	1	978	MAAATRGCRPWGSLGLLGLV SAAAAAWDLASLRCTLGAFCE CDFRPDLPGLECDLAQHLAQ HLAKALVVKALKAFVRDPAPT KPLVLSLHGWTGTGKSYVSSLL AHYLFQGGRLSPRVHHFSPVLH FPHPSHIERYKN\DLKSWVQGN LTACGRSLFLF\DEMDK\MPPGL \MEVLRPFLGSSWVVYGTNYR KAIFIFISNTGGEQINQVALEAW RSRRDREEILLQELEPVISRAVL DKPAPLPSPNSGHHWKERLLD AVVPFLPLQRHHVHRHCVLNEL AQLGPGAKGMRVVQAVLDSTT FFPEDEQLFSSNGCKTVASRIAF

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10483	40851	A	10544	1	560	ATSPHQSQSTVDVGQLHDPQP YPQHAIQVQHIQVSEPTASAPSS AQSSSTQGGQLQQQQQQQQ NSSVQHTYLPSAWNSFRGYSSE IQMMTLPPGQFVITDSGVAIPV TTGQVKAVTSGHYVLSESQSEL EEKQTSALSGGVQVEPPAHSDS LDPQTNKQQQTQYIITTTNG NGSSEVHITKP
10484	40852	A	10545	3	205	
10485	40853	A	10546	2	348	ADQARGKPTWAVSATQFQLD FPIT*CYGLL*QRVSRRHIGALQ GKPVPLLVLLYPITPREGGLG DRARLCLKQQQQQQQQQQQ QLLLLLLLLLLLLLLLQCEGT EGRPFPD
10486	40854	A	10547	1	1146	MVTYKLVLIRCGESTWNLENH FSSWQKRA/IRILWTVLDAIDQ MRLPVVRTWCLKEWHYGLA GLNKAETSAKHGEAQSNIKGC RYADLTEDQLSSGESLKEIVPQI KEGKWVLTAAHGNSLRGIVKH LEGLSEEAIMELNLPTGIPIVYE LDKNLKPIKPMQFLGDEVTLC AMEAVAAQSKAKRRPAGML LSPGTPSLAIPSSAPAPCTHTD HIWNSPVYSDAILRANPFCVHI SKANYLVNELHTAVNVAGLYI GWRCPHYLDWCFRIGDESRCF CGHLLREHRIISDISVPCKVSQC RCFMFCFIPSRPEEVGCCGCFE SNFLCAACDRRWEEHETFFDTQ KTRQRGGRPRGADYVPFAEMA VLREAILSNSDF
10487	40855	A	10548	2	516	GRLNERHYGGLTGLNIAETAA KHGEAQVKIWRRSYDVPPPPKE PDHPFYRNIRMDRRYADLTED QLPSCESLKD TIARALPFWNEEI GPQIKEGKRVLIATHGNSLRGIV KPWEGLSEEAIMELNLPTGIPIV YELDKNLKPIKPMQFLGDEET VRKAMEAVAAQGKAKK
10488	40856	B	10549	123	237	

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10489	40857	A	10550	1	952	PAAPQVAGRLGLGCPLHLHVF AVVSAMLPLLRCVPRVLGSSV AGLRAAAPASPFQQLQPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGCGCGSLHTDGDKAF VDFLSDEIKEERKIQKHKTLPK MSGGWELELNGTEAKLVKVA GEKIPVPF\NINNSIPP\TFYGEKD PSQSQKV\EDREPELTSLPKF\VV EVIKND DGRKA\LVLDCHYPED EVGQDEAE S DIFS\REV SFQS\ TGESEWKD TNYTLNTDSL DWA LYDHLMDFLADRGVDNTFADE LVELSTALEHQEYITFLEDLQEV LSRAHRADRC
10490	40858	A	10551	1	879	AAGCRKENS L D LRSQFPGRD S EDFNVKEE A N A A A E I R Y T H I L NRVLPPDIRILAWAPVEPSFSAR FSCLERTYRYFFPRADLDIVTM DYAAQKYVGTHDFRNLCCKMD VANGVINFOR TILSAQVQLVGQ SPGEGRWQEPFQLCQFEVTGQ AFLYHQVRCMMAILFLIGQGM EKPEIIDE\LLNIEKNPQKPQYSM AC\EFPLVL\YACKFENVKWIYD QE\LRSSNITHLQQLWANHAVK THMLYSMLQGLDTPVPVPCGMG PKMDGMTEWGNVKPSVIKQTQ CLCRRSEDAHI
10491	40859	A	10552	231	358	
10492	40860	A	10553	2	319	
10493	40861	A	10554	573	1660	MAAPT PARPVLTHLLVALFGM GSWA AVNGI WVLPVVVKELP EGWSLPSYVSVLVALGNLGLL VVTLWRR LAPGKDEQVPIRVV QVLGMVGTALLASLWHHVAP VAGQLHSVAFLALAFVLALAC CASNVTFLPFLSHLPPRFLRSFF LG\QGLSALL\PCVLALVQGVG RLECPPAPINGTPGPPLDFLERF PASTFFWALTALLVASAAAFQG LLLLLPPPPSVPTGELGSGLQVG APGAEEVEESSPLQEPPSQAA GTTGPD PKAYQLLSARSACLL GLLAATNAL TNGVLP AVQS FSC LPYGR LALPPGLWCWAVLP WACFLGHGCCCAGPWQGWGG LLSAGRVLWGLPDGRWQS

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10494	40862	A	10555	154	850	QFFRVITCLPFKGPDYRLYKSEP ELTTVAEVDENGEKSEPVSEI ETSVVKGSHFPVGVPPRAKSP TPESSTIASYVTLRKTCKMMDL RTERPRSAVEQLCLAESTRPRM TVEEQMERIRRH\QQACLRKK KGLKCFVLSLSDQSPLQSPSNLR DNPFRTTQTRRRDDKELDTAIR ENDVKPDHETPATEIVQLKETE PQNVDFS\IRGLLDCPSVSILPGR SIKRAKNQNS
10495	40863	C	10556	39	436	
10496	40864	A	10557	2	959	
10497	40865	A	10558	34	1044	QGCAVAGPLHPARLPCCVHGC PVRMHASLCHVRCHFAVTFR LMYLDWLPTVIEPCGVGSNKV PVVQHPPHHVHPLTPLITYSNEH FTPGNPPPHLPADVDPKT/GMC SCGTGRCAVARTCRIRSCVPCE ALSPCDARGAHSAGIPRPPHPPD ISPYYPPLSPGT\QQQPVPYITGG FRHPYPTALTVNASMSRKHQD SKKEEEKKKPHIKKPLNAFMLY MKEMRAKVVAECTLKESAAIN QILGRRLLGYNARAFGLKRGWR LDKYRGFVWMEMAVWSLPPA FSFQGKKKKRKRDKQPGETND KPESSLGASSLMVVGWNTYRN QEKHIPTLELDHTVSV
10498	40866	A	10559	2	398	
10499	40867	A	10560	174	362	
10500	40868	A	10561	14	266	
10501	40869	B	10562	67	474	

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10502	40870	A	10563	1938	3291	ERRKRFGMLDATDGPGETDAA LRMEVDRSPGLPMSDLKTHNV HVEIEQRWHQVETTPLRKQV PIAPVHLSSEDGGDRLSTHELTS LLEKELEQSQKEASDLLEQNRL LQDQLRVALGREQSAREGYVL QATCERGFAAMEETHQKKIED LQRQHORELEKLREEKDRLLAE ETAATISAIEAMKNAHREEMER ELEKSQRSQISSVNSDVEALRG QYLEELQSVHRELE\VLSEQYS AKCLENLAHAQALEAERQALR QCQRENQELNAHNQELNNRLA AEITRLRTLTTGDDGGGATGSP LAQGKDAH*LKGLM\RVKESEI QYLKQEISSLKDELQTALR\DK KYASDKYKDIYTELSIAKAKA\ DC\DISRLKEQLKAATEALGEKS PDSATVSGY\DI\MKSKSNP\DFL KKDRSCVTRQLRNIRSKSLKEG LTVQERLKLFESEDLKKD
10503	40871	B	10564	58	4405	
10504	40872	A	10565	3	156	NSSHHCHHHHHHHNHHHQHH QHNHC\HQHHHHYHHYDYHH DDNYHHHHHHHH
10505	40873	A	10566	10	445	HRSTITRQCPSGLETRIALPPA VFPSGSRTLPPSTPGSSSPQPR/P PLTRGPGPPRTHALASGTRGPA RGEEKVADTPHHGEGGCPNSE KEPFLHPTAPPPRLPTSPESGP VPHTLQQAPPLRRHLGGTPAGA PASQSSEWGG
10506	40874	A	10567	1	288	
10507	40875	A	10568	50	542	TLSPERLSPELRLLPYMITLGDA VHNFADGLAVGAFAI\SWKT GLATSLAVFCHELPHELGLRP LAAPGAVPCAKELLLNLASALT AFAGLYVALAVGVSESEAWI\ LAVAT\ALFLYVAICDMLPAML KVRDRPWLLFLLHNVGLLGG WTVPADAVPVRG
10508	40876	A	10569	1	690	
10509	40877	B	10570	34	465	
10510	40878	A	10571	1	624	
10511	40879	A	10572	3	933	

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10512	40880	A	10573	1	1481	RRFPPAGAVAVIERGVRRGGSQR CRTMADQLYLENIDEFV\TDQN KIVTYKWLSYTLGVHVNQAKQ MLYDYVERKRKENSQAQLHVT YLVSGSLIQNGHSCHKVAVLRE DKLEAVKSKLAVTASIHVYSIQ\ KAMLKDSGPLFNTDYDILKSNL QNCSKFSAIQCA\AAVPRAPAES SSSSKKFEQSHLHMSSETQANN ELTTNGHGPPASKQVSQQPKGI MGMFASKAAAKTQETNKETKT EAKEVTNASAAGNKA PGKGN MMSNFFGKAAMNKFVNLD EQAVKEEKIVEQPTVSVTEPKL ATPAGLKKSSKKAEPVKVLQK EKK\RGKRVALSDDETKETENM RKKRRT\IKLPESDNSEYEVFPD SSGAYEAESPSPPPSPPLEPVP KTEPEPPSVKSSSGENKRKRKR VLKSKTYLDGEGCIVTEKVYES ESCTDSEEELNMKTSSVHRPPA MTVKKEPREERKGPKKGTAAL GKANRQVSITGFFQRK
10513	40881	A	10574	1	100	

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10514	40882	A	10575	2	2271	PELLTEGVKEPIMDSQERDSGD PLVDESLKRQGFQENYDARLSR IDIANTLREQVQDLFNKKYGEA LGIKYPVQVPYKRIKSNPGSVII EGLPPGIPFRKPCTFGSQNLERIL AVADKIKFTAT\RPFQGLIPKPD EDDANRLGEKVILREQIKELF\ NEKLR*GPWGLNRPVLPYKLA IRDSPDAVEVPGLPDDIPRNP TYDIHRLEKILKAREHVRMAIIS QLQLLQQQHHISEGRPF AEIC NDAKVPGESEARKPPFCPVGTR LFLLKKREPEVSMNKDRYPQE APRNQLSLRTLDDILDDPRGGC VHLRQSQRWRGADTRELPRG MLEGLRQLLSAIGCPRDPTCAP AQPGDQPLQRLAFTLANEPQTV LEKPPPRFRRRGAARSPEQLYTP RRGGVLPAPERTQSASADAGS LACRALEVDSGCPTGPPCPKGS RRLTITSGVDCGLLKQMKELEQ EKVVLLQGLEMAGSRLQRLQ PVQDRQCRLGQSRASADFGPA GSPHPLGRLLPKVQEVARCVGE LLAAAGASRALPTSSSGPLCPA LTFTSFPGWQQQTILMLKEQNR RLTQEVTEKSGRVMQLEQKSA LIMKQLFEAQALSQQDGEASGL HLHLARLGWAEPQGSSVTQPFE GGRPVSPNVSGWRPPAAQAVP EWAPSCPTCHPGFPGPPAGPR TEPLTRFWLLVLTWAGALLSLH
10515	40883	A	10576	346	3136	ALRTKRLWPGGHCRAPQWP P/ASPLAPATALAAHSRHLSLCR SDKGSMSEDCPGTSGELGGLR PIKIEPEVLDIIQVTPDALPTSE EMTDSMPGHLPSEDSGYGMET LTDKKWTWDGAKAIGISEPIKV LYSKFLMHPEELFVVGLPEGISL RRPNCFGIAKLWKILEASNSIQF VIKSGEEIRWDRELFRCRACMP GGSLQIAKSYTTGLESKCDP AVESKASAGQDEMOPHARPKL LTEGVKEPIVD
10516	40884	A	10577	60	352	
10517	40885	B	10578	1	720	
10518	40886	B	10579	1	1478	
10519	40887	B	10580	1	1895	
10520	40888	A	10581	2	413	

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10521	40889	A	10582	2	969	WGSWAPQSRGCPYQPGAAQGR ALAPQHRGSCSPWTGGGKE/Y LMRAHFGLPSVEAEDKEGKPP SVKFEIPYFTTSGIQVRLAPGSL YGRKRSSLGKSHPSLLQVDGQ YSQQQGAGHPRGTRKGSQTPG ARQVVEPGKCWPVVCVPHVPC PPTSTALRKHLRPQRAIYTSRLA PGALGGHCSVCLLPGLAGLAC GAFPGPAWVTRCCHSARSVLT HQGAPPGPDITVPARLPEPEVE VSCRGRRPALLNAQQSPPSLPPP PPSAAAEASCSSHVRQRRLRAG PEGQGFYLFHDRNKHSLKLAK PREPFCVVTDSRIQFGPPH
10522	40890	A	10583	50	1083	NPRAIFKSVRTCVPPTQPCRN KARSCGVGAGTTSFTLSVWPH RYITQEGHKLETGAPRAGTVT NAVCRWSEGIKYRKNEVFLDVI ESVNLLVSA\NGNVLRSEIVGSI KMRVFLSGMPELRLGLN\DKVL FDNTGRGK\SKSVE\LEDVKFHQ CVRLSRFENDR\TISFIPPDG\EFE \LMSYRLNTHVK\PLIWIESVIEK HSHSRIEYMIKAKSQFKR\RTA NNVGDPHFPLPNDCLNPSFK\T TVGERLSWVPENSEIVWSIKSFP GGKEYLMRAHFGLPSVEAEDK EGKPPDSVFKFEIPYFLTSGIQ VRYLKIIKESGYQALPWVRYIT QNGDYQLRTQ
10523	40891	C	10584	175	454	
10524	40892	A	10585	1	193	LLPRPGSGLDFLLSPVLPS/HSAS WACPLPRSPMPSSCC*R*RKE MASGFSKGPTLGCCPTCPP
10525	40893	A	10586	2780	2965	SPSQGESIPT*WRPTGSPPTSSP GPA*SSLSPRSPSSASASPSMC VRPSMWAASLLKSL
10526	40894	A	10587	1	1502	
10527	40895	A	10588	1256	1990	RCAPMTTCAWASCCSPWPTPF GTGPPSTSVSTSWPWQPGWGW WL*VGAAPAGGRQHPSPPALPR RSSGRSKLSRPSLCQLVPGL*T RLLSPQKESLPWRGSWREFPL PQLNTLPATEADPGVSSLPSAQ RHLHSYKIKVLSRQESLAPAPA SGYPESTALPQNGRGPWAVGF GQIPFLCIHNVGRSLGAGPGSG KPLPCVFRSTFSSSHQYCRLGR KHNHFHTKGKLRCCGPGDGR

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10528	40896	A	10589	375	678	RCCCCTTRPARKCRTTMGIRHS TWPAPTATRTTHSGSRSPGSTA ASPRGLCPRPALTDPCPGHLSG LPVASV*AGSCPHVPGDQTTRK SGTVFPTQCTRP
10529	40897	B	10590	1	2452	
10530	40898	B	10591	1	1140	
10531	40899	A	10592	1	1617	
10532	40900	A	10593	1	1448	RERSCLHLVCIRCSCDVVEMGS VLGLCSMASWIPCLCGSAPCLL CRCCPSGNNSTVTRLIYALFLL VGVCVACVMLIPGMEEQLNKIP GFCENEKGVVPCNILVG YKAV YRLCFGLAMFYLLLSLLMIKVK SSSDPRAAVHNGFWFFKFAAAI AIIIGAFFIPEGTFTTVWFYVGM AGAFCFILIQVLVLLIDFAHSWNE SWVEKMEEGNSRCWYAALLS ATALNYLLSLVAIVLFFVYYTH PASCSENKAFISVNMLLCVGAS VMSILPKIQESQPRSGLLQSSVIT VYTMYLTRS\CMTNEPETNCNP SLLSHIGYNTTSTVPKEGQS\VQ WWHAQGVHGLILFLLCVFYSSIR TSNNGQVNKLT\TSGESTLIGR WVGAR\SDGITGRDGGTDVSPE AVRINGK/RDGCSLYSYSFFHF MLC\LASLYIM\MTLTSWYRYE PSAWMESQWTA VL/WVKISSS WIGIVLYVWTLVAPLVLTNRDF
10533	40901	A	10594	3	343	GVLLCRL*QGQNYW/NFLQTK VTGNMRDKRTTPMPEFLHASW PNTELRYWKENCPEQKGP*PM MALS*GCPLWPAPNVTSSSKG WSPGQLWMYRFG RPLRISSETG WSLWLT

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10534	40902	A	10595	1	2500	MEDAWGIRKETGRVKEEAKEV TGWGNNWRNVEKSSMSRKVK AARPGFKKLPMTSDIPPCKTIKD LLPKEKSSTEAVFHTVVLERHE SPDIEDFSFKEPQKNVHDFECQ WRDDTGNYKGVLMAQKEGKR DQRDRRDIENKLMNNQLGVSF HSHLPELQLFQGEGKMYECNQ VEKSTNNGSSVSPLQQIPSSVQT HRSKKYHELNHFSLLTQRRKA NSCGKPYKCNECGKAFTQNSN LTSHRRIHSGEKPYKCSECGKT FTVRSNLTIHQVIHTGEKPYKC HECGKVFRHNSYLATHRRIHTG EKPYKCNECGKAFRGHSNLT HQLIHTGEKPFKCNECGKLFTQ NSHLISHWRIHTGEKPYKCNEC GKAFSVRSSLAIHQTIHTGEKPY KCNECGKVFRYNSYLGRHRRV HTGEKPYKCNECGKAFSMHSN LATHQVIHTGTPFKCNECS\Q VFTQNSQLANHRIHTGEKPYK CNECGKAFSVRSSLTTHQAIHS GEKPYKCIECGKSFTQKSHLRS HRGIHSGEKPYKCNECGKVFA QTSQLARHWRVHTGEKPYKCN DCGRAFSRSSLTFHQAIHTGE KPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFSM HSNLTTHKVIHTGEKPYKCNQC GKVF\IQNSHLANHQRTHTEK PYRCNECGKAFSVRSSLTTHQA
10535	40903	A	10596	330	432	
10536	40904	A	10597	1	147	
10537	40905	A	10598	1	380	RTRGRGQRGKMELVQVLKRGL QQITGHGGLRGYLRVFFRTNDA KVGTLVGEDKYGNKYEDNK Q/FFWHRWLHSMTDDPPTTKPL TARKFIWTNHFVNVTGTPEQY VPYSTTRKKIQEWIPPSTPYK
10538	40906	A	10599	9	536	VLKRGLQQITGHGG/LFRGYLR VFFRTNDAKVGTLVGEDKYGN KYYEDNKQFFGDERLQASGLA LTLCEQTEEGSCLWSQSKLGK SQSMNFKNSKTRSFQRTVSAGK TKYYHPVVAGRQQQARATCD HVDPRTEHGPAAWPYWPRL GLKHALLTFTVALQYRAQPLFR LPNLPL
10539	40907	A	10600	239	263	
10540	40908	A	10601	1	600	

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10541	40909	A	10602	1	1178	
10542	40910	A	10603	1	1038	MHLEVNSSPEPLDENLDNTVTS ALSGHEQRIQTSPLVLLTTKTEI LARFSQLQFPPEEQSSFAYPANC VKSKGMNTKLPLRPLKVCREL TIDSDRDILYRTLFLMGDSGMGK VQFEFGEEVHIVIKSTGFGPFSS YATLEPFVAVQLWGGGQHYQ GQQPPMGMMGQVNQGNHMM GQRQIPPYRPPQQGPPQQYSGQ EDYYGDQYSHGGQGPEGMN QQYYPDGHNDYGYQQPSDPEQ GYDRPYEDSSQHYEYEGGNSQY GQQHDA YQGGPPQGGYPPQQQ QYPGQQGYPKQQQGYGPSQG GPGPQYPNYPQGQQQYGGYI PTQPGPPQPPQQRPGYDQGQY
10543	40911	A	10604	130	213	LKVST*AMPLPR*TPSRRCQP*R TGTSP
10544	40912	A	10605	124	208	LKVST*AMPLPR*TPSRRCQP*R TGTSP
10545	40913	B	10606	140	589	
10546	40914	A	10607	1	302	
10547	40915	A	10608	2	98	
10548	40916	A	10609	2	190	
10549	40917	B	10610	1	856	
10550	40918	A	10611	123	1287	AFSLGK\MSEKKLFGPNGERMP FSKVKALCAGLQATVAAPKNA EENKAIQDVAKDTAFLGITDEA TEGQFMyltGGRLTYSNWKKD EPNDHGSGEDCVILLNGLWN GISCTSSFIAIFQWAHYQYRQAE NYPKGELHLRVKLCGPSWPT NAIHFRSRLMLPGPTVLLMTM AVFQLSQAVAMCSWCCGLVLP PAGCLQDKASKPRETQAQPGL CVRGNFRIPSRQDFAAALARAL SGLDLWASLWVPFADFLGSSLS VPWFSYLENDEEDLTRLSRLN GERTFLESPGKKRIGAGTPPMS QEAVMLAVMERDPGQCRGEE GPTECRAMWPGWGGRHSLPGH PAMLCsFLGSDLEIRGSNGGWE PPFIPGLQPELARGIQGSGRGAE
10551	40919	A	10612	292	445	LSICLQSAVCTPGMD/PAAPCSL GILDWGTLPSTAEPGREGPADA WVDPGVR
10552	40920	A	10613	363	575	HLLPTQGALCPAEGWPAPWQG YTPTCDCAEDTTQLERAGQLPP VF*SCHRGVSSQ*GSPGVPQL LHQPE

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10553	40921	A	10614	3	638	SSKLSGLTTNVVDIILAHHFGQE ELQANLDLIQTYRMHIAQDINQ DNLQLFLNSYNGRRDLEIERPIL GQNDNKSKTLKG\STLLVVDN SPAVEAVVECNSRLNPINTTL\L KMADCGGLPPG*FSPGKLTEAF KYFLQGMGYIPLVLCYST\SGS MTSVARSR\THSTSSSLGSGESP FSRSVTSNQSDGT\QES\CESPDV LDRQQTMEVSC
10554	40922	A	10615	3	1152	KSCFNAFFNFEDMQEITQH\FAV CHVDAPGQQEGAP/SPFPTGYQ YPTMDELAEMPLPVLTHLSLKS IIGIGVGAGAYIL\SRFALNHP VERPLCSLMVDPC/ALKGWIDW AASKLSG\LTNNVVEIILAHHFG QEELQANLDLIQTYRMHIAQDI NQDNLQLFLNSYNGRRDLEIER PILGQNDNKSKTLKCSTLLVVG DNPAVEAVMADCGGLPQVVQ PGKLTEAFKYFLQGMGYIPVCA AQSPHEHRVST\SASMTLARSRT HSTSSSLGSGESPFSRSVTSNQS DGTQESCESPDVLDHRQTMEIS LDDVLLSALLRNNNGKSAQQKKI SAKPKLEFLCPRPGTCDHGSRE KQGHSRGPGQFPGRWPGRVA ETRGAIHRL
10555	40923	A	10616	169	270	GICPFLQLSFYHLLD*DTRYLQI LRLQLKPHSFH

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10556	40924	A	10617	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLLEDCKTPSPSSLGADAI AKQRKTSVSAAASVSATIPIRR VQGPTVVGSWARGVSAAASGP RGTGPKGKARSEKGC SL SHGPQ TNKPLVVQKGQKMEQANHPV GLVISVVYKDILKKIVQRETSHP LIHVRYAEAITGRRTAPEDKGS LGRDMLAKAGAIHYMNMGNKL PIWCHLLEEGIYLEVWALEGQF GRAKNACPVQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLYP VVPNPYTLLSQIPEEA EWFPVL DLKDAFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPQGFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLLATSSEASCQQA TLDLLNFLANQGYKASRSKAQ LCLQQVKYLGILILARGTRTLGK ERIQPILAYPHPKTLKQLWGFL QIT/GFCQLWIPR*SKI
10557	40925	A	10618	1	1022	MKPSVWALIQLNLSPYEKGILG LTKRHQGRLCDTGRQGIQPLPP SQAHTGIPLHPYSIQVDCAIDR GKLCFCCCIGECNYSQQGPGT VAGSWARGISAAVSVSATILISR VQGPLHVLGQEVFLLLRQTNL AGSERTENGAGQSPGGACYQC GLQGHFTKDCPMRNKLPPRCP LYQGNHWKDGEPHEDCQQIIV QTSAAEDLLEVPLANPDLNLY TDGSSFVENGEVAKAVIAQFPT TVGVSCLDGRLRVLEV LARAIR /LGEGNKGYSIRKRGSIQVPVCR *HDCISRKPHHLSPKSP*ADKQL QQSLRIQNQCAKITSILIHQ*QT
10558	40926	A	10619	1	2091	
10559	40927	B	10620	1	2269	
10560	40928	A	10621	1	1776	

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10561	40929	A	10622	112	1465	LLKGARCLIQRPFA/LQQETHR AHTLLLEWEPQAEFTTLKQA LLQAAALTLPTQRNFSLYVTDR AEIALGVLIQTCGTTQPVAAYLT IEKGKERGEQQHKQLAEAAER KERKRQEVREEREKEKETERQSK KEREETKMESERKRETEKEVS TLAALEEPFSPQPSLGLAEAGA GSLFSWGGVEGEVRGGGRAAH SAHRLVQVPGGQVRVQVFENP LLKAIKSDLPRSSLWSGRKTSV SAAALKEIRKEISKGTQIPLGYR LCPLQAVGGGEFGPTKIHVPFS LSDLKQIKADLGKFSDDPDYI DVLQGLGKTFDLTWRDVMLLL DQTLAFNEKNAALAAASEFGGI WYLSQVNDRMATAERDQFPTG QQAIPSMDFHWDLDSDHGDWS HKHLLTCVLEGLRGIRKKPMN YSMMSTIIQGKEENPSAFLQQL WKSRLKYTEPSSKSL
10562	40930	C	10623	52	690	
10563	40931	C	10624	199	285	
10564	40932	A	10625	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
10565	40933	A	10626	280	571	DIYVPIRII*KLPQAYAD/PAVPP CTSGRIWL*IHAGAWSSFWLVS Y*LLPQFQILLVYSEIQILPGLV LGECMCQGICPFLDFLVYLRR GVCSIL
10566	40934	A	10627	60	148	WGRGEPLCLAQGL*THQSAPC QNRPLGSL
10567	40935	B	10628	1	397	
10568	40936	A	10629	55	219	LGKHLHLLGSIDPRGSWVTGEYI FLRPPIAA*GRQ*DFLPPELWW TSLNNSWAFS
10569	40937	A	10630	3	494	
10570	40938	A	10631	2	689	
10571	40939	A	10632	157	277	DV*SNNSMTSLQVRCRTSMYLS GSSENFPRSTWICDAVAETPLA QEPATVPGP
10572	40940	A	10633	230	543	PSDRQTLVVQRGQKIEQANHL VGLVTSVVKDITLKKIVHGMA FSMLISC/PRQLSSRSITIQGILGR AVTRYFSHLLSCNWETLLQIDQ GHQATDGLTNGTPNELN
10573	40941	B	10634	1	669	

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10574	40942	A	10635	119	409	GDICHHLGLTPVGSHSLSCSR* QVA*VGAVTAATIGTGILLQQL AFLVCNWLLLSGSSNFPRSAI CFKSEREKGTCIQVGPNSPPPTA CKGHN
10575	40943	A	10636	3	482	LSSYSGGDLEKLYV*LRDCKYT NQHSVSSSRFVNIPISTLCLTQGL L*MHPMDTLYLATLGGDLENL CVHTLYLANLVGMWRTFVSSS GIVNAPISTLSKQTT*LSVKWTN QQDVGGARQENKSRLPEPAVT TPLGSPPTPWKLCSFALCNKSC YCPKKKK
10576	40944	A	10637	1	2331	
10577	40945	A	10638	879	1353	SNNRTEGARGKRQLMSSP/STE PRVRLTIEGQETDFLLDTGAAFS VLISCLGRLSSRSVTIR*ILGQPV TRYFS/QPLSCNWETLLFSHAFL IMPESSTPLLGRDILAKAGAHYI NMGNKLPICCPALLVEGINPEV WALEGQFGRKNARPLQIRLK
10578	40946	A	10639	345	1996	
10579	40947	B	10640	97	1110	
10580	40948	A	10641	728	5171	
10581	40949	C	10642	1	2049	

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10582	40950	A	10643	1	2019	MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTETFSSLWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFENMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKYTTQGDKVLMLAIQVHHA VCDGFHVGRMLNELQQYCDE WQGAQYPLRPEAHKGIQDIV KYLKAQGLGRKCSPCNTPILG VQKLNGQWRLVQDLRLIN/EGF F*SSKLQAMQAMFAENSMSSV YSPTQEA EYWLPHGILQPADCF FEAASTSRSMWP/RE/DWLSTT/S LTTWNMDFADFGTTIKQDFRLL GQTSVDRLLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLMQLARQVSRLESGH LDHGSHSYRRSDNSLDPRSHSC CRSDIGLGRSHLYCRSDYQRE TTIPSMMPVKGNQAPCMKSNN LIVILGTVTLDAVGIGLVMPVLP GLLRDIVHSDSIASHYGVLLAL YALMQFLCAPVLGALSDFRGR RPVLLASLLGATIDYEIMATTPS WEDEEPIEHDSQQIIVQTYATR DDLLEVPLANPDNLNLYADGSSF VENGIRRAGYAIVSDVTVLENS LAAVTLQNRQGLDLLTAEKGG LCTFSGKECCFYTNQSGISSPLE DTTTAGPFLHPIQQEVARAIIGQ FPTAFGVSCLEGRRLRGEASWTS
10583	40951	A	10644	803	1171	
10584	40952	A	10645	1	2148	
10585	40953	A	10646	1094	3886	SNDRTEDDCGKHFMSSPPATEP WVCLIIIEGQEIDFLDGTTFVS LIPCLGRLSSRSVTIQILGQPV RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPEAEW FTVLDLKD
10586	40954	A	10647	762	1298	

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10587	40955	A	10648	893	2165	GPRGTGPKGKARSEKGRSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIYMNMG KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPI LGVQ KPNGQWSLVQDLRLISEA VIPL YPVVPNPYTLLSQIPEEAEWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVL PQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATDLLNFLANQGYKASRSK AQLCLQQVKYLGILARGRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC*LWIPGYSKIARPLYT
10588	40956	A	10649	2	403	
10589	40957	B	10650	51	1038	
10590	40958	A	10651	581	1128	SPCRAQRHSCMWGLWQQSPCS PGSWQDSSPAQSGPPR*PFSVP SSPWCLPSTWPLSPSPLPASWR RKTSAPSLLSLATAGPP*AGVC E/AKTPKKKYSDDEEESEEN SRDSEDFSDDFSDDFVETRRR RSRRNQKRQINYKEDSESDGSQ KSLRRGKEIRRVHKRRLSSSESE GYFFIKS
10591	40959	B	10652	1	4296	
10592	40960	A	10653	2	447	KEKKRNKKKKTIGSPKRIQSPL NNKLLNSPAKTLPG/AC/GSPQK LIDGFLKHEGPPAEKPLEELSAS TSGVPGLSSLQSDPAGCVRPPV VKYCTDLIEEKDLEKLDLVIKY MKRLMQQSVEVWNMAFDLIL DNVQVVLQQTYGSTLKVT
10593	40961	C	10654	286	336	
10594	40962	A	10655	421	638	

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10595	40963	A	10657	1	888	MMNEKNLEKGLGVDSVDKDA MNAAIQQAIIKAQPSMSPKKAPP APAKEARNVVA VGTGGRGTHD RDPSEKPPRLQWFEQQA KKL KQQEEDSEEEEEEDLDGDVLEIG KSKIKVLAESVSDWEDIDSDEE LECEDTEAMDDVVEQDAEEEE AEEGPPLGAIPITDCLFC SHHSS LMKNVAHMTKDHSFFIPDIEYL SDIKGLIKYL GTHSSSNVCKGL WDLEKRPSIDLK/CRT*YSTKRH /CTRLSASSHFILCQWFSVLS/P VHASTDQEIQEMHDDQSNPQN AVVREHCVGWGWGV
10596	40964	A	10658	1	1545	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRRKVASMAP VTAEGFQERVRA\HGPSRRRA RARP/LYCTVCSKKFASFNAYE NHLKSRRHVELEKKA VQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVA VGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEEEDLDGD VLEIGKSKIKVLAESVSDWEDI DSDEELECEDTEAMDDVVEQD AEEEEAEEGPPLGAIPITDCLFC SHHSSSLMKNVAHMTKDHSFFI PDIEYLS DIKGLIKYLGEKVGVG KICLWCNEKGKSFYSTEAVQA HMNDKSHCKLFTDGDAALEFA DFYDFSWRLAVGGHDWVERLT ASHYFYGYYPGARVGHRSLMR YYKQRFGLSRAVAVAKNRKAV GRVLQQYRALGWTGSTGAAL MRERDMQYVQRMKSKWMLK TGMKNNATKQMHFRVQGSQK EIQIFHSSEIDGIATAVEDDFASP TPTKDAKN
10597	40965	A	10659	3	943	

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10598	40966	A	10660	1	2427	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRRKVASMAP VTAEGFQERVRA/HGPSRRRRA RARP/LYCTVCSSKKFASFNAYE NHLKSRRHVELEKKAVQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVAVGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEDLDGD DWEDIDSDEELEDCEDEAMDD VVEQDAEEEEAEEGPPLGAIPIT DCLFCSHSSSLMKNVAHMTK DHSFFIPDIEYLSDIKGLIKYLGE KVGVGKICLWCNEKGKSFYST EAVQAHMNDKSHCKLFTDGD AALEFADFYDFSWRLAVGGHD WVEVEGRIRGCGSREDNECLL VCNFSVIGVAIQITRKGRTPIRA EELPSEKNLEYDDETMELILPSG ARVGHRSMLMRYKQRFGLSRA VAVAKNRKAVGRVLQYRAL GWTGSTGAALMRERDMQYVQ RMKSKWMLKTGMKNNAATKQ MHFRVQMDCRGIAVLVFKAPS FYLIMAPKHKSGDAGDSNMPK GSRKVLPLSEKVKVLKEKKLY AEVAKIHGVKLQTFGVSVTAH KGSVDPKSEQQDQLLRVKEQ SFHSVEADPAAEGAGSGLSQLR KGLPQCSSLNGSSSATKVGAQ AEEAPRASEGCEGCQHAVTSQ
10599	40967	A	10661	3	658	GTKGWAFPITDCLFCSHSSSL MKNVAHMTKDHSFFIPDIEYLS DIKGLIKYLGEKVGVGKICLWC NEKGKSFYSTEA VQAHMNDKS HCKLL\QDGDAALEFADFYDFR SSYPDHKEGEDPNKAEELPSEK NLEYDDETMELILPSGARVGH\ RSLMRYKQAIWLVKNLWQLP KIRKAVGRVLQYRSPGIGLGS TGAALMRERDMQYVQRMKSK MGC
10600	40968	A	10662	1	221	MNPLANSTLTDVHPHFIFKQMA ELDRDMDEAGNHHSQQTNTRT ENQTPHVLTHKWELNNENTRT QGREHHTSEEFIAIQPEYYQKE KSNSDINLEGTSYWTENHCSGI YKVINCLESEIHSEEN* CQN*IFL SDNIQVELR*IPLMCDVPCVSV CSHCSTPTYE

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10601	40969	A	10663	1	1815	MHEAGNHHHCQQSNTRKENQTP DVLTHKWEGFDQLRLEGLLCD VTLMPGDTDDAFPVHRVMMA SASDYFKAMFTGGMKEQDLM CIKLHGVSKVGLRKIIDFIYTAK LSLNMDNLQDTLEAASFLQILP VLDFCKVFLISGVTLDCNCEVG RIANTYNLTEVDKYVNSFVLKN FPALLSTGEFLKLPFERLAFVLS SNSLKHCTELELFKATCRWLRL EEPRMDFAAKLMKNIRFPLMTP QELINYVQTVDFMRTDNTCVN LLEASNYQMMPYMQPVMQS DRTAIRSDTTHLVTLGGVLRQQ LVVSKELRMYDEKAHEWKSLA PMDAPRYQHGIIVIGNFLYVV GGQSNYDTKGKTAVDTVFRFD PRYNKWMQVASLNEKRTFFHL SALKGYLYAVGGRNAAAGELPT VECYNPRTNEWTVAKMSEPH YGHAGTVYGGVMISSGITHD TFQKELMCFDPDTPDKWIQKAP MTTVRGLHCMCTVGERLYVIG GNHFRGTSYDDVLSCEYYSPN LDQWTPIAAMLRRQSDVGAVV FENKIYVVGGSWNNRCMVEI VQKYDPDKDEWHKVFDLPESL GGIRACTLTVPPEETTPSPSRES
10602	40970	A	10664	1	1226	MNEIEFRLERTPVDESDDIEQH DEIPTGKCIPIFDKRLKHFRVT EGSPVTFTCKIVGIPVPKVYWF KDGKQISKRNEHCKMRREGDG TCSLHIESTTSDDDGNYTIMAA NPQGRISCSGHLMVQSLPIRSRL TSAGQSHRGRSRVQERDKEPLQ ERFFRPHFLQAPGDMVAHEGR LCRLDCKVSGLPPPDMTWLLN GQPVLPDASHKMLVRETGVHS LLIDPLTQRDAGTYKCIATNKT GQNSFSLELSVVAKEVKKAPVI LEKLQNCGVPEGHPVRLECRVI GMPPPVFYWKDNETIPCTRER ISMHQD TTGYACLLIQPAKKSD AGWYTLAKNEAGIVSCTARL DIYAQWHHQIPPPMSVRPSGSR YGSLSKGLDIFSAFSSMESTM VYSCSSRSVVEDEL
10603	40971	C	10665	166	229	
10604	40972	B	10666	251	371	

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10605	40973	A	10667	79	1391	PWEGSAPATSPLGEDSAWGSADGSESWSCRELLQPGDVLGESCGLTPPALPAHCIQEGCLPPLTQELRCCQPPRMGRWALDVAFLWKAELTLGLELLYY\CFFIGINFYNKWLTKSF/HIFPLFMTMLHLAVIFLFSALSRLVQCSSHRARVVLWADYLRRVAPTAALREVASLFRKPSAEEMLCPPARQRGEARELSQNPIIRAGEGRLQGHRQVATVICAPAPFSVMGLSPELQQCIVGNFASRYTMTKSSAVLFILIFSLIFKLEELRAALVLVLLIAGGLFMFTYKSTQFNVEGFA\WCWGRSSVAFAGPSPRCSCRRLNSASRIPSTPCSTCSHSCS/WGLFPLFAVFEG\TGLLLRVLGSLFLGGILAFGLGFSEFL/VSSRTSSLTSLIAGIFKEVCTLLAAHLLGDQISLLNWLGFASASREYPTLPS
10606	40974	A	10668	1	1129	MGRWALDVAFLWKA\VLTLGLVLLYYCFSIGITFYNKWLTKSFHFPLFMTMLHLAVIFLFSALSRLVQCSSHRARVVLWADYLRRVAPTALATALDVGLSNWSFLYVTVSLYTMKSSAVLFILIFSLIFKLEELRAALVLVLLIAGGLFMFTYKSTQFNVEGFA\WCWGRSSVAFAGPSPRCSCRRLNSASRIPSTPCSTCSHSCSWGLFPLFAVFEGHLSTSEKIFRFQ\DTGLLRRVLG\SLFLGGILAFGLGFSEFLVSSRTSSLTSLIAGIFKEVCTLLAAHLLGDQISLLNWLGFASASREYPTLPSKPCIPEVTQSPFQKPLVSVLLPVTLSDS DAGSVPGGSAAVTPLGRCGHLQSGWVGP
10607	40975	A	10669	566	1026	PVMPKLIYVIRTGKQLKISLGHVDFQTVPSFLQQLNV/WQTIKASEHPDRNDCVAVLRQKRSLGSVENTSGKRKCWGGQSGFTTSELEETEEDSDLSYGDVDGRKDALAEPFCFMLIGEIFELRGKPQYQLEIWQVPTGTPDHLEEEANEK

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10608	40976	A	10670	1717	2340	GIDVQGGKNSFSLSSFLERLPRD FFSHQEEETEEDSDLSYGDDV DGRKDALAEPFMLEIFELR GMFKWVRRTLIALVQVTFGRTI NKQIRDTVSWIFSEQMLVYYINI FRDAFWPNGKLAPPTTIRSKEQ SQETKQRAQQKLLNIPDMLQS LVGQQNARHGII/NKYSNALQE TRANKHLLYALMELLIELCPE LRVHLDQL
10609	40977	A	10671	181	399	NRYIVPISQIMKRKRKVSIVLN VTGY*/RGM/RKPGLLNLASGFL LSTSPSENSNRCLWQIDPW EEGETYV
10610	40978	A	10672	66	535	CWWQDPLQRTROKSVTATSTK ID\ISNVKIPKHPADAYFKKQQL WKPRNRKLAGKLSTPAARDAP RARPPHEAPPPPPPELRYRVPP RPAPSSWRHPSGKGRRGPPGIG GRIVGERQLRTEYGNDRPGREG DPAPGCCGGARTLSLYGEIKLR VKF
10611	40979	A	10673	67	585	SAAKSEMAGEKVEKPDTEKK PEAKKVDAGGKVKKGNLKA KPKKGKPHCSRNPVLVRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLATVTKPVGG DKVGGTRG\VKLRK\MPRI/YPT EDVPRKLLSHGKKPFSQHVRKL RASITPGTILILTGRHRGKR VVF
10612	40980	A	10674	2	282	CIALYCHLLNICKVKAEMQNL GREFIVPGMDSATSLIWATK/DL MNAVIEAPEKKPLLKREKQDES QSEIKWASQKKHLNPVQALSEF KAMDSI
10613	40981	A	10675	2	2798	
10614	40982	A	10676	14	2858	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGNINFKWDPK SLEIRTLAVERLLEPLVTQVTTL VNTNSKGPSNKKRGRSKKAHV LAASVEQATENFLEKGDKIAKE SQFL*E*LLAAVEYVRKQGD MKTAAGEFADDPSSVEQGNM VQAA*TLASAVTCLLILADMG NVYTLLIQLKVVEDDILKLRNA GNEQDLGI*YKALKPEVNKVNI MAVKRQQLKDVGHRDQMAA ARGILQKNVLIIFYTASRA
10615	40983	A	10677	1	4545	

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10616	40984	A	10678	1	1921	MAGLGMGEEGIPGGERWEHKR RAHIVSNHRITRTGTHPYTHSPY PHKDNVHTARREHKTDLGTI RSVGHSSSEHTQHTTPTDTPPLV VIVCRVCYRPPHGETRAEYTRH RGQNRRTKFWVGKEEKNLAQ QERTEEQLANIARGGYVLKDC AGQPELIFIATGSEVELAAAYE KLTAEGVKARVVSMPSTDAFD KQDAAYRESVLPKAVTARVAV EAGIADYWKYVGLNGAIVGM TTFGESAPAEELLFEFGFTVDNP LASRAVRLRLPFNNDQVEAAV GWKLAVERHNGPTALILSRQN LAQVERTPDQVKEIARGGYVL KDSGGKPDIIATGSEMEITLQ AAEKLAGEGRNVRVVSPLSTDI FDAQDEEYRESVLPNSVAARV AVEAGIADYWKYVGLKGAIV GMTGYGESAPADKLFPPFGFTA ENIVAKAHKVLGVKAGSHIPRK KYDVPGKKSFSVPKYSTIGSPSP ERPVSITTIPNSFVIITANRVLHC NADTPEEMHHWITLLQRSKGD TRVEGQEFIVVEKLIRGLAMED SRNMFAL/S*IQRPRRQSH*KSN RRS*CLSQV*KRASW*AFTNI* WPDRHGLRKYSF/WSPGNIHHL RHCRML*VVRLLRLNNAVYE
10617	40985	A	10679	1	2940	
10618	40986	A	10680	2	404	
10619	40987	A	10681	2	546	WCPHRWRPHTLTPTAAPAVTK SPEATHLYGQVSWNSQNLHLE GQLQSASLQGSFMLK**GDPLD F/VMSPPRPLFERLKARISQSTK TFTP CERLEKRRTSFLEGT LRRS FR TG SVVRQKV EEEQMLDMWI KEEVSSARASIIDKWRKFQGMN QEQAMAKYMALIKEWPGYGST LFDVEGTD
10620	40988	A	10682	1	555	
10621	40989	A	10683	1	627	

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10622	40990	A	10684	1	7232	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKECERTAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGTLDVGLID SVCASDSPDRPNSFVIITANRVL HCNADTPEEMHHWITLLQRSK GDTRVEGQEFIVRGWLHKEVK NSPKMSSLKLLKKRWFVLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERAEE
10623	40991	A	10685	1	2146	IDSVCASDSPDRPNSFVIITANR VLHCNADTPEEMHHWITLLQR SKGDTRVEGQEFIVRGWLHKE VKNSPKMSSLKLLKKRWFVLTH NSLDYYKSSEKNALKGLTLVL NSLCSVVPDEKIFKETGYWNV TVYGRKH CYRLYTKLLNEATR WSSAIQNVTDTKAPIDTPTQQLI QDIKENCLNSDVVEQIYKRNPIL RYTHHPLHSPLPLPYGD\INLN LLKDKGYTTLQDEAIKIFNSLQ QLESMSDPIHQQILQTGHDLRP LRDELYCQLIKQTNKVPHPGSV GNLYSWQILTCLSCFTLPSRGIL KYLKFLKRIREQFPGTEMEKY ALFTYESLKKTKREFVLSRDEI EALHRQDMTSTVYCHGGGSC KITINSHTTAGEVVEKLIRGLA MEDSRNMFALFEYNHVDKAI ESRTVVADVLAKFEKLAATSEV GDLPWKFYFKLYCFLDTDNVP KDSVEFAFMFEQAHEAVIHGH HPAPEENLQVLAHATSSIMQG DYTLHA\AIPPLEEVYSLQRLK ARISQSTKTFTPCERLEKRRTSF LEGTLRRSFRTGSVVRQKVEEE QMLDMWIKKEEVSSARASIIDK WRKFQGMNQEQAAMAKYMALI KEWPGYGSTLFDVEVRTGCHV LGWAGCWHLRWITAKFMWR EDKMEHFALSTSFFRAPKIVPLT PPFSSQFLFSCVVNASVILGMN

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10624	40992	A	10686	28	561	MDIVQDATFVYATLQTAHYHR DAGLPVYLYEFEHHARGIIVKP RTDGADHGDEMYFLFGGPFAT GAKVPPDTPTGCPVSHLWMQT HPSIGWPQGAHQFLICYALPNE SLLLRKQQKQQE*GGRNPNDG NLPCWPRYNKDEKYLQLDFTT RVGMKLKEKKMAFWMSLYQS QRPEKQRQF
10625	40993	A	10687	148	444	
10626	40994	A	10688	1	1531	PLPGARRCLHEFWGQLASMYV STRERYKWLRFNEDCLYLN VYAPARAPGDPQLPVMVWFP GGAFIVGAASSYEGSDLAARE KEGLVFLQHRLGIFSFLSTDD SHARGNWGLLDQMAALRWVQ ENIAAFRGRPREILTLFGQS AGAMSISGLMMSPLASGLFH RAISQSGTALFRLFITRNPL KVAKKVAHLAGCNHNSTQIL VNCLRALIRAKVMRVSNKMR FLQLNFQRPDEEIIW SMSPVVDGVPVDDPLVLLTQ GKVSSVPYLLGVNNLEFNWLL PYIMKFPLNRQAMRKETITKML WSTRLLAKNSWGAEHGSKSL VGPPLAQLAPRPQNITKEQVPL VVEEYLDNVNEHDWKMLRNR MMDIVQDATFVYATLQTAHYH RDAGLPVYLYEFEHHARGIIVK PRTDGADHGDEMYFLFGGPFA TGLSMGKEKALSQMMKYWA NFARTGNPNDGNLPCWPRYNK DEKYLQLDFTTRVGMKLKEKK MAFWMSLYQSQRPEKQRQF

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10627	40995	A	10689	138	1898	ICKYIMNDQWARQNCLHSPTY GPSENVLSSAESKPEIQLSPSCPL IFSSQQALSQHVWLSHLSQLFSS LWAG\NPLHLGKHYPEDQKQQ QDPFCFSGKAEWIEGEDSRLL FGRVSKNGTSKALSSPPEEQP AQSKEDNTVVDIGSSPERRADL EETDKVLHGLEVSGFGEIKYEE FGPGFIKESNLLSLQKTQTGETP YMYTEWGDSFGSMSVLIKNPR THSGGKPYVCRECGRGFTWKS NLITHQRTHSGEKPYVCKDCGR GFTWKS\nLFTHQRTHSGLKPY VCKECGQSFS\nLKS\nNLITHQRAH TGEKPYVCRECGRGFRQSHSL VRHKRTHSGEKPYICRECEQGF SQKSHLIRHLRTHTEKPYVCT ECGRHFSWKS\nLKTHQRTHS VKPYVCLECGQCFS\nLKS\nLNK HQ\RSHTGEKPFVCTECGRGFT RKSTLITHQRTHSGEKPFVCAE CGRGFNDKSTLISHQRTHSGEK PFMCRECGRRFRQKPNLFRHKKR AHSGAFVCRECGQGFC\nLTLI KHQRAHAGGKPHVCRECGQGF SRQSHLIRHRTHSGEKPYICRK CGRGFSRK\nSLIRHRTHS
10628	40996	C	10690	160	294	
10629	40997	A	10691	3	82	SWACAIHPTGYLIEQAGG*WVT ARRD

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10630	40998	A	10692	1	1399	MLRRYRPDITSCHGSTAESKGG VVLDVSGRARPLRRTRNSPST SLTSSKMSGLDGGNKLPLAQTG GLAAPDHASGDPDRDQCQGLR EETEATQVMANTGGGSLETVA EGGASQDPVDCGPALRVPVAG SRGGAATKAGQEDAPPSTKGL EAASAAEAADSSQKNGCQLGE PRGPAGQKALEACGAGGLGSQ MIPGKKAKEVTTKRAISAAVE KEGEAGAAMEEKKVVQKEKK VAGGVKEETRPRAPKINNCMD SLEAIDQELSNVNAQADRAFLQ LER\KFGRMRRLHMQRISFIIQNI PGFWVTAFRNHPQLSPMISGQD EDMLRYMINLEVEELKHPRAG CKFKFIFQGNPYFRNEGLVKEY ERRSSGRVVPFSTPI\RWHRGQ\ DPQAHHRNREGNTIPSFFNWFS DHSLLFDRIAIIKGEIWPNNPL QYYLMGEGPRRGIRGPPRPQVE SARSFRFQSG
10631	40999	A	10693	3	441	
10632	41000	A	10694	190	2716	
10633	41001	A	10695	1	793	MARQKKMGQSVLRAVFFLVLG LLGSHGGFPNTISIGKRKRASR RSRLSLTRDHCPGKAFFAVFRA ERSTGGEQEAGMLQGGEESRLF GSLLWTLPWACSSWKLSQGD ADCLAAPGRITRARGAQS SVSG CRETGWGLFMRNTVQEHSFR FAVQLYNTNQNTTEKPFHLNY HETSPIPLKSPPVSFCCALVVHS TLHRPSLCSVSSLAHRSHIPSPH CHCKNCCCTPLQPTNVLVDYA LFARSREKANVTCLKLPLTEVIPF
10634	41002	A	10696	2	2744	
10635	41003	A	10697	2	2740	
10636	41004	B	10698	47	7237	

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10637	41005	A	10699	426	2118	GFGHTVHAAEGGDFGGSWQG DSVLLCSTVDPGSWAASRGKG SPCRGPLCGCCPGRSSVQPSKVE VAVSCSCGALLGMCMPPVLA LEGCPRGVAAKGKGSPQAQTV RRSPADQSLEDSPSKVPKSW FGDRSRARQAFRIKGAASRQNS EEASLPGEDIVDDKSCPEFVTE DLTPGLKVSIRAVCMRFLVSK RKFKESLRPYDVMVIEQYSAG HLDMLSRIKSLQSRQEPRLPVQ QGTRTGIDMIVGPPPPSTPRHKK YPTKGPTAPPRESPQYSPRVDQI VGRGPAITDKDRTKGPAEALP EDPSMMGRLGKVEKQVLSMEK KLDFLVNIYMQRMGIPPTETEA YFGAKEPEPAPPYHSPEDSREH VDRHGCIVKIVRSSSTGQKNFS APPAAPPVQCPPSTSWQPQSH RQGHGTSPVGDHGS LVRIPPP AHERSLSA YGGGNRASMEFLR QEDTPGCRPPEGTLRDS DTSISIP SVDHEELERSFSGFSISQSKENL DALNSCYAAVAPCAKVRPYIA EGESD TSD LCTPCGPPRSAT GEGPFGDVGWAGPRK
10638	41006	A	10700	1	774	
10639	41007	A	10701	124	815	HPGTAMDALNSMQNFLRGRPK TFKSLENAIEWSVKSGQIRNLES ARVSMVGQVKQCEGITSPEGSK SIVEGIIEEEEDEEGSESISKRK KEDDMETKKDHPYTWRIELAK TEKYWDGWFRGLSNLFLSCPIP KLLLLAGVDRLDKDLTIGQMQ GKFQMQVLPQCGHAVHEVDAP DKVAEAVATFLIRHRFAEPNGG FQCVFPGLLVTCPPLLQHRAL LVNTFAPEAHC
10640	41008	A	10702	69	370	
10641	41009	A	10703	1	224	MCNTPAYCDLGKAAKDVFNK GYGFGMVKIDLTKSCSGVEFS TSGHAYTDTGKASGNLETKYK VCNYGLTFTQK*NTPAYCDLG KAAKDVFNKGYGFGMVKIDLK TKSCSGVEFSTSGHAYTDTGKA SGNLETKYKVCNYGLTFTQK
10642	41010	A	10704	2	171	

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10643	41011	A	10705	1	740	MCNTPTYCDLGKAAEDVFNKG YGFGMGKIDLKTSCSAVEFST SGHAYTDTGKASGNLEPECKV CNYGLTFTQKRNTDNTLGTEIS LENKLAKGLKLSLDTILVPNTG KKSSELKASYKWDCFSVGSNV DLDFSGPTIYGWAVLVFEGWL AGYQMSFDTAKSKLSQNNFAL GYEAADFQLHHTVTDGTEFGG SIYQKVNGIEMSINLA WTA/GSN NTHFGIATKYKLD CRTSLSAKA VVLGTRV GSC
10644	41012	B	10706	1	318	
10645	41013	A	10707	2	100	
10646	41014	A	10708	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSPV VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEVTYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKP DGS CIVSLKIDWIIERYQLPQSYQLY YFELAI PVGYFYPG SFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADV LIVPTPAELFDYTSALQ FFDMLRDL LKNVDLKGFE PDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWGIGTINVVCAADV LIV PTPAELFDYTSALQFFDMLRDL LKNVDLKGFE PDVRILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEVTYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
10647	41015	A	10709	284	969	RVSRGRK WFFIALKRMPAMKK AMNLFLGLSNVRTVHPEGFTV YISTHISFPSLSGYRTGLRSFGLV KQKKSPIRMPCVYTNPCVSIHP LWLRLRSPSARWLRCGSPSLG WTRTEPAPSPRGGRTKARIW EVTDR TVRTWIGEAV/AAHAA DGVTFSPVTPHTFRHSYAMH MLYAGIPLKVLQSLMGHKSIS TEVYTKVFALDVAARHRVQFA MPESDAVAMLKQLS

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10648	41016	A	10710	2817	3297	AGCVRHRLSENRLDHRALPAA SKLPAYA*LPPPLPAGRL*RIPH RQFL*HQI/RL/PTERRCLLTRRT EKARIWEVTDRTVRTWIGEAV ARLAADGVTFSVPVTPHTFRHS YAMHMLYAGIPLKVLQSLMGH KSSISTEVYTKVFALDVAARHR VQ\FAMPES
10649	41017	B	10711	1	963	
10650	41018	A	10712	1	1296	
10651	41019	A	10713	1	1167	
10652	41020	A	10714	349	3195	
10653	41021	A	10715	163	864	
10654	41022	A	10716	576	754	
10655	41023	A	10717	1	1449	
10656	41024	A	10718	1422	1600	
10657	41025	A	10719	489	726	ISCCSFFSPRPPHTFRHSYAMH MLYAGIPLKVLQSLMGHKSSIS TEVYTKVFALDVAARHRVQFA MPESDAVAMLKQLS
10658	41026	A	10720	1	1596	
10659	41027	A	10721	1	1572	
10660	41028	A	10722	2	100	
10661	41029	A	10723	561	804	TLRQTKPDNSADPPHTFRHSY AMHMLYAGIPLKVLQSLMGHK SISSTEYVYTKVFALDVAARHRV QFAMPESDAVAMLKQLS
10662	41030	A	10724	1	867	
10663	41031	B	10725	1	825	
10664	41032	A	10726	1	942	
10665	41033	A	10727	2	100	
10666	41034	A	10728	39	359	RILGKGAGQTRAESLVWGRGV PARCC*PGGPFLVPGPP*VR/H LSYARPM/L*PGIPLKVLQSLMG HKSISSEVYRKVFALNVAARH RVQFAMPEFDAVAMLKQLS
10667	41035	B	10729	41	724	
10668	41036	A	10730	1	1023	
10669	41037	A	10731	1	1314	
10670	41038	A	10732	1	1128	
10671	41039	A	10733	892	1611	
10672	41040	B	10734	78	1099	
10673	41041	A	10735	1	936	
10674	41042	A	10736	766	1056	
10675	41043	A	10737	1	1422	
10676	41044	A	10738	1214	1721	

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10677	41045	A	10739	2592	3233	RWGRWRTGGSSRSEPTMELRA PAWPRGRPGQGGARPAGSELR GNATAPSPAICLRNLCRMEES PNTDGKRPETGSNKRKGAGDK WWKIKTGMRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKVISSTDFYTKVFALDVA ARHRVQFAMPESDAVAMLKQL
10678	41046	A	10740	6323	7130	
10679	41047	A	10741	319	522	RNTRYWVINSISVIPSSALISKR SPRLMAKKTAHFLGISRTSVAE FTFTRSGISRDCVKGAGAADR RPNAPPRAEFQSGWFLIMECFA R*VGDPQL/TA/HFDAV/RRE/IM PL/PREG/KTL/QTEVREMPKRC AVFLAINLGDRFDIKADEGGIT DIEFITQYLVRLYAHEKPKLTR WSDNVRILELLAQNDIMEEQEA MALTRAYTTLRDELHHLALQE LPGHVSEDCFTAERELVRASW QKWLVEE
10680	41048	A	10742	2	640	
10681	41049	C	10743	1	2358	
10682	41050	A	10744	1264	1894	RGDKPQHIVTVHRADVKAQL FKQRRHYHAFNMFFGAFEQL FNWRHARENFFPAGKQLCQMV VERADIFGNRHFI VVENHQHIR TDIARVIHRFKRHACGNRAIAN DTDGAAIFAFTAILYGIQFSCAS FYLFVVYEHGSLKTVGCPLQEV /WRTALESCKPAHIQLSGVLAI/S SIVMQSVNAMPSWSGYSSQA ASAARWLLARSLIC

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10683	41051	A	10745	872	3111	VLKPNHLTERKGC/GFACGRYG KLGA WELDYSPLDIIFLND CP M NAMTAGERKIDGRQFYLR LA QRIMHLFSTRTSSGILYEVDARL RPSGAAGMLVTSAEAFADYQK NEAWTWEHQALVRARVVYGD PQLTAHFDAVRREIMTLPREGK TLQTEVREMREKMRAHLGNKH RDRFDIKADEGGITNIEFITQYL VLR YAHEKPKLTGWSDNVRIL ELLAQNDIMEEQEAMALTRAY TTLREPRFSRSLFWGCSPLGLF DYLADLFKIDNSHGGRFKTVLL TFLPPALLYLIFPNGFIYGIGGA GLCATIWA V IIPAVLA I KARKKF PNQMFTVWGGNLIPAIVILFVLP WFYFIPGLICTSLVYRASPPIS MPAKAVAYCVLRISGGDGSCD VICRGKVADRSKFWNP NWSKT HTEPTQSQ TATS NR TSATTAE QRSDEKEGNNRTRHEEQRSQN ATQHKRRERATTTQKTCSETVT PTTMNMCNEPELRRHARVLPP VLYIVQRRYDESHLRISISACNV CRTERHAVHTDETIHSTV VADC KERVAVMRLRLPLCAACRHIG DVIVYSAYVCEHRCMRLLATR RH YVVTLTTHLRRRLFLTEVNA RYVCIYDDEHSRSSTVTHAHP I DHQSAHYDTYVYDIGTVSYMR LNTSVRLIRRAHTCTSRALMD SHSKDGRPMDYASAVVVTHPL
10684	41052	A	10746	1577	1668	TINPPELAFVKTVH*SPRICLGF I HIFLLN
10685	41053	A	10747	486	674	HW WKNWRRCWIPVIWH*RRSR TIWRCKK WITASTLLSRSSPSK LPPCMSGFQPVVAGRKR R
10686	41054	A	10748	254	396	ADDQIPHSKTHLKL SLEVEENQ Q*EI*RPLLQ*GGMSVPRCVHG RSG
10687	41055	A	10749	3	674	ISAE LNRPF AIRGDLG/VVWERQ KQETGWR SWVP/WPHVHAEDII LGNPPDI/PEVTMVHLPRVEATL /APLALLTKTVWLPWIKLESPRI RFQFSHHVRR AVLCE DAYYKL TLAQVEKLKNGGKVIASDELM TKFRIPNTLEFCAPVMADAPAI ALLRLSLACDLAQAMMPAFH KPISSSFVNDYAGTSFACAASD MDERRMLNAPLSRLTLVEKL RRCWIPVIRH

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10688	41056	A	10750	1	1755	
10689	41057	A	10751	1	1662	MSKPKYPFEKRLEVNVNHYFTT DDGYRIISARFGVPRTQVRTWV ALYEKHGEKGLIPKPGVVSADP ELRIKVVKAIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQAL SKPDKYADVKKRISEIYHENRG RYGYRRVTLSLHREGKQINHK AVQRLMGTLCLKAAIKVKRYR SYRGEISSTKLFLTAFRMIVVA IILATFDWNRLKPTINQKVSAA LNRPF AIRGDLGVVWERQKQE TGWRSWVPWPHVHAEDIILGN PPDIPEVTMVHLPRVEATLAPL ALLTKTVWLPWIKLEKPDARLI RLSEKNNNWTFNLANDD/NKD ANA\NRRHGRFGWIIFFSIKGG PLMTNDIHGSLVYTTGKPRPKL EGDVESRQLRLADLGPLIGVDS GKGAEKSKRSEQKKGEKSVQP AGKVLPHYDRFETDKWDVMDA DVRFKGRRIEHGSSLPISDLSTHI ILKNADLRLQPLKFGMAGGSIA ANIHLEGGDKKPMQGRADIQAR RLKLKELMPDVN
10690	41058	A	10752	1	477	SELGHAGLNGDILVWNPVLED AFELSSMGIRVD\ADTLKHQLA GDEDRLELEWHQALLRGEMP QTIGGGIGQSRLTMLLLQLAHI GQVQCGVWAAAVRESVPSLPL QLFHFTRHVVRQPLSDKIRNHQ RIGIKPFPALQAFHNGAKTTGKI GADTKLLA
10691	41059	A	10753	414	794	RPSPLPTGLGDTGLGFLPRFIEM EKLPF\DVAAEQELQEGPLPEY SGPGLALAKWGLGLKQVVM ASLFVALFLPFGR\AQELSLACL LTSLVVTLKKNINSMTAGILVC LVTVVSPGLIKVLIYDQ
10692	41060	A	10754	88	227	
10693	41061	A	10755	26	261	
10694	41062	A	10756	164	361	
10695	41063	A	10757	1347	1656	RVGRPGHRASAQSGGNPQNHR RLGEPVSARHPAYLSTGSGDAA AARYRRSA*SLRR*SRASSHPPE RAGTPVAPGTIDIFRWRTAARQ HRPRLYRRLPHSAA

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10696	41064	A	10758	2096	2248	RLIGLHGQNSRSPQLPMESAS VA*RCTAALDGGVSSTSTRWLF ASCTRL
10697	41065	A	10759	1	2240	
10698	41066	A	10760	1	1082	MEHERYVVGISNLMLKPELYLA VGISGQIQHVMVGANASQTIFAI NKDKNAPIFYADYGIVGDAG ALMSIEDIFDAIIVGAGLAGSVA ALVLAREGAQVLVIERGNSAG AKNVTGGRLYAHSLEHIIPGFA DSAPVERLITHEKLAFMTEKSA MTMDYCNGDETSQRSYSVL RSKFDAWLMEQAEAEAGQLIT GIRVDNLVQRDGVVGVVEADG NRVMKKILTPIKAEDLQDIRV GDVIYL*RHRSLSVG*RAESGG* RSGRIVKRTG
10699	41067	A	10761	987	1191	
10700	41068	B	10762	1	1506	
10701	41069	A	10763	204	527	GPDRQCIGPLAE*NTGNSHKAA LRQQRAEGRWWQKPHGEWRA ATADGRTYAAISAQATAPQSPA GQSTMPPRPRLSTPALPVMPA VTVDRQITPASVSTTKQAISA
10702	41070	A	10764	1041	3024	
10703	41071	B	10765	1	763	
10704	41072	A	10766	729	989	HLTRQGIPTDLQRLVLSVRRKT NKQKGHPHRKRICTSPSSKTKS R*NHKDGEKTEQKNWKL*NAE HLSSSKGTQFLTSNGPKLDGE

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10705	41073	A	10767	89	1755	LSEGKLTNRKDIHTKTPSVRHH HQRPKCWKFWPGHSGRRRK*R /CIQVGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVS YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMFFIELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNKQWGKDS LFNIWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRSTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLKS CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDTNRHFSKEDIYA AKRHMTKCSSLAVREMQIKT TMRYHLTPVEEVVRAEMAKTR RCQNVKGASEEGIRALALFLIN LTVHMEGNHIDGDIEIQTNRSPL QAPGEICESFTALMAMQLLSKL FWS
10706	41074	A	10768	533	760	
10707	41075	A	10769	1067	1225	
10708	41076	A	10770	1080	1250	SSGLHSWDARLVQYTQINKYN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10709	41077	C	10771	55	1842	
10710	41078	A	10772	1575	1745	SSGLHPWDARLVQYTQINKCN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10711	41079	A	10773	2798	2871	
10712	41080	A	10774	601	876	
10713	41081	A	10775	1194	1421	

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10714	41082	A	10776	587	1683	GWKFWPGQSGRRRK*/R/CIQLG KEKVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLKEIKEDTNKWKN PCSWVGRISIVKMAILPKVIYRF NAIPIKLPMFTFFTELEKTTLKFI WNQKRARIAKSILSQKNAGGI TLPDFKLYYKATVTKTAWCWY QNRDIDQWNGTEPSEIMPHIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLSFCT AKETTVRVNRQPTTW
10715	41083	A	10777	1260	2176	SSGLHPWDARLVQYMQINQCN PAYKQNRQKPHDYLNRCRKG L*QNSTTLHAKNS/AIN*CWKF WPGQLGRRRK*/R/CIQLGKEEV KLSLFADDMIVYLENPIISAQNL LKLISNFSKVSQYKINVQKSQA FLYTNNRQTESQIMSELPFTIAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWKNIPCSWI GRINIVKMAILPKVIYRFNAIPIK LPMTFFTELEKTTLKFIWNQKR ARITKSILSQKNKAGGITLPDLK LYYKAIVTQNSMVLLPKQRYR PMEQNRALRNNAAYLQLSDL
10716	41084	A	10778	3813	3983	SSGLHPWDARLVQYTQINKCN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10717	41085	A	10779	1312	3348	
10718	41086	A	10780	1636	1815	
10719	41087	A	10781	67	403	KFLCRPPIIRPPKTFNTLIVLARR CIQCFRFFDIACFN RVGKFGV GHQLRGFRHDIRGFAQWTHLP DGCAFRDRCYAAGAQCENVPA LTACGDNNQR/GACWYPQQEV
10720	41088	A	10782	506	915	WASVKSPVPCWNCWISHRRRV TCRHVRFAPGFNLAKAV/QGAA LVITGKGRIDSQTAGGKAPLGV ASVANQFNVPVIGIAGVLGDGV EVVPQYGIDAVFSILPRLAPLAE VLASGETNLFNSARNIACAIG QGIKN
10721	41089	A	10783	1	906	

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10722	41090	A	10784	2	597	SILKVACDVDNPLVGARGAAA VFGPQKGATPEMVVEEQGLQ NYARVLHQPEINVCQMAG\A GAAGGMGIAAP\VFFNGDIKPGI EIVLNAVNLAAQAVQGAALVITG EGRIDSQTAGGKAPLGVASVA KQFNVP CDLGLLAYVGDGVEV VHQY GIDAGFNILPFLAPLAEV LASGETNLFNSARNIACAIGQ
10723	41091	A	10785	1	1140	
10724	41092	A	10786	13	628	LLIPARPPGINPYYWKVSEANLI RYFQQVGDSVTLPMMLYNFPA LTGQDLTPALVKTLADSRSNIG IKDTIDSV AHLRSMIHTVKG AH PHFTVLCGYHDH LFN TLLGGD GAISASGNFAPQVSVNLLKAW RDGDVAKAAGYHQ TLLQIPQM YQLDTP\FVNVIKEAIVLCGRP V STHVLPPASPLDEPRKAQLKTL LQQLKLW
10725	41093	A	10787	3	1185	EQSGRGARDGGARDGVREGG\ SWTQQHGLPLTKVELATVAEY PVCLWQRLTL\SPQYGSIP/RGD QSDGWKVDYNGPFS LWKGQH FVINGIDTC SGCKFAIPVCSASA KLLPMSSQNVYHRDILHRIDSE QGTHFRVKEVQQWALGRGFY WSYYISHHPEAAGLVEQCNGIL KTPSQFQMGRNTLQGWGKVLP SLEGCAFSSSKSNLCSVVLKVF VPKEGMVPPGDTTMIILNCKLR LPP\MPLNLLASKEVTVD/YQG EIGQLLHNRGKEECVWNTGDC LTYLLILPSSVIKVKEKPQPHPG RTINGPDP SGMKTWVTPPAGA VFLIGSWLRYDYGQYT WRAAS SQMLDRKGMN LASNLFHIGILG IFVGHFFGMLTPHWMYEAMTY GSCDTDNANV
10726	41094	A	10788	396	504	WKRLERRAIQGDSPVHK NARA GELDE*AATRAIPG
10727	41095	A	10789	24	611	EILPVP GPVVIAW/AIFRRIAGES WSAIVISGLSIARHAQQKRIITFT ASLAARLEIALKIVRNADGTES ASEQLYQVVGAGCKMPWQSE AMKDVLC DKRRLMRRTGGTE TSKYPEEKKSTEIPPVAASERGG AQSLNQCATEAVVLTRVDSHL KVGDSLSTTSFLKKFAARFGG QLEKALGLGSMQAFSDIRGL
10728	41096	A	10790	212	578	

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10729	41097	A	10791	1	1707	
10730	41098	A	10792	3	313	NAE/TVKMFTTSSKEDATFGL/G WRVNGNATMTPTFGT/LASPQT YGHTGSPPLPPICPVRPPGYLRR LSPRFPRLFGLSLPQRPPGILERS LQRRRNPSGWRRRNQ
10731	41099	A	10793	1	1992	MDVQSAADDTGLPMLVVRGPF NVVWQRLPAALEKVG MKVTD STRSQGNMAVTYKPLSDSDWQ ELGASDPGLASGDYKLQVGD DNRSSLQFIDPKGHTLTQSQND ALENAILAVIRHEICLSDVVRIR ASRRFDKTSGETPDRQKILKLG LLPAGWLADVDPRLVGVMNV WTLVPAALFFFGAGMLFPLAT SGAMEPFPFLAGTAGALVGGL QNIGSGVLASLSAMLPQTGQPG VVDDLNGIVDRAVLAAAGDAD VASGAARLSARHRSIVISSMGE RCCFIRSRITRICGFLAAGVGLD QLAPDFATPVIRELLALLCLFS GGLAMYGYLRWLRNEKAMRL KEDLPYTNSLLIISLIMVAVI VMGLWIPPTCIVDDRMAYIPG LADSPNDTIKGKNTLRISDLLH HSGGFPADPQYPNKAVAGALY SQDKGQTLEMIKRTPLEYQPGS KHIYSDVDYMLLGFIVESVTGQ PLDRYVEESIYRPLGLTHTVFNP LLKGFKPQQIAATELNGNTRDG VIHFPNIRTSTLWGQVHDEKAF YSMGGVSGHAGLFSNTGDIALF NAETVKMFTTSSKEDATFGLG WRVNGNATMTPTFGTLASPQT YGHTGWTGTVTVIDPVNHMTI VMLSNKPHSPVADPQKNPTMF
10732	41100	A	10794	2	137	NCLSPVSAN*WPAKTGRPILPS ATVTASTRNVLSKHWRIWVST VC
10733	41101	A	10795	271	553	ATQRQDLHFVRSPGDAVYTQIT PEAADA VVARNPDTAQHLHC/ VYP/HTSNAALAQKYLHIAASP EVMVPLSAFHAASYSMFFMEF NLIAMWANFS

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10734	41102	A	10796	1	747	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQRAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGERSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRVL
10735	41103	A	10797	444	548	
10736	41104	A	10798	951	1648	TTGRFPPSVQDSFVNESSRMGL PDEFTLQREFERARQQGALAQ W/IAAFEGGFTGIVATLDTGRPG PVMAFRVMDALDLSEEQDVS HRPYRDGFASCNAGMMHACG HDGHTAIGLGLAHTLKQFESGL HGVIKLIFQPAEEGTRGARAMV DAGVVDDVDYFTAVHIGTGVP AGTVVCGSDNFMATTKFDAHF TGTAAHAGAKPEDGHNALLAA /AQATLALHAIAPHSEGASRV
10737	41105	A	10799	1495	2282	FDRHVGEFFLNQLETTNSLAKL HALIGVARRIFKGAHRRTVVGE GYQETFMVELFFDAVKAVTFPT EHVFLVQFHVVKGDFTAAIHTQ TELFKFGHFDARFAHINKPFGV DRFVRRSPVARHHHDVRGVGA AGNKTLLTIKINLTISTGISRFQA THVGARARFGDR*VRTDSTTTV GHRDCIITGGHR/HKSFQPGHEA PQAVPLPGRFHHH*PSHDHCR* LVSLAGAAAYRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD
10738	41106	B	10800	1	3618	
10739	41107	A	10801	3	490	TGIVATLDT/GRPGPVMAFRVD MDALD/LSEEQDVSHRPYRDGF /ASCNAGMMHACGHDGHT/AIG LGLAHTLKQFESGL/HGVIKLIF QLHRYAAHAGAKPEDGHNALL /AAAQATLALHAIAPHSE/GASR VNVGVMQAGSGR/NVVPASAL LRQPTRSALNTTQQLNAR

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10740	41108	A	10802	1	513	MGIESLQAFLRSAGALGVWVY TFLEIRILPTGLHHFIYGGFISGP AAVEGGIQMYWAQHLQEFSLS AEPLKSLFPEGGFALHGNSKIFG AVGIYLAAMYFAAAPENRVKVA RLLIPTPLAAMLVVIPEPL\EFTF LFISPILYAVHAVLTASMSPVM YLPGVVGNMGEKGID
10741	41109	A	10803	1	4941	
10742	41110	A	10804	1	1083	
10743	41111	A	10805	1	1363	MPVRKNMIMNEGNIPTPTNGC RIRASCGVPMICINQLKDGNNK PSPLTAARMKQKAILFLIRTVR TDTHVVEDTGRKGSRKANSRE RFPDAFPEFHGFADFRVLRQAM IQIWLVSVMVQHVHNVCITDAC RIVQTRIVVTAGFQLSNASLVA MRRWVYRVRIQYRRTTQTAV FHSTHGNYREGQPVGTLDIDRY KANENVELVHYAQPLLNEADS LAKVMPSDIPLKQRRWLGLQM LEGDIYSRAYAGEASQHLDAAL ARLRNEMDDPALHIADARYQCI AAICDVVSNTLTAEPSRFTTAV DKIVLNRFLGLPIFLFVMYLMF LLAINIGGALQPLFDVGSVALF VHGIQWIGYTLHFDPDLTIFLA QGLGGGINTVLPLVPQIGMMY\ CFSSFLKTPALACREIFVPLMRL RVNLRWYPPVL*RISWWTNSRI PTTFSTRGSACWRATPAK
10744	41112	A	10806	199	1083	RLFEPRLGVA AVENGALGKR SAVVLPGFDAVNHKTRFIEFVK SAIEGNRLTVRAIGPQFFTQTPV IVFNQGVSGAQNIAGRAVLLQ TNSFGTGEIHKETLNILHLRPAPA VD*LVVITDDHHFAGVARQQA DPRVLNVVGILEFVHQDIGKTF AVVLQDMRLVKPQLVSAQQQL GEVHQARAVTRFLIRLIHLLPGL LHRITVALNMMRTQAFIFLAVD VPHCLPRRPLLLVEVHGFDDQTQ KVAAWRGHRFALFVIAVEQV RNVHWHRRVKIGWAEKRNAL RQKAGNFQMRQ
10745	41113	A	10807	49	273	DFLGRGAFNVINIGAWASRPVQ GSTVDLSHGLHLVLHLKNNL*F YGFDSHFLKSFFYKGTSSISIQVE VGISQGNL
10746	41114	B	10808	91	2183	

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10747	41115	A	10809	8	219	FSLWPL/KKFSNRFLKKKPMEF GSWTTREILIASFAGVRGAILTA GVLSIPLLLPDGNVFPARYELVF LAAV
10748	41116	A	10810	84	509	
10749	41117	A	10811	3	163	ENTTWLYAD*NAGRDADFGHA KRKWTLLAILAAVATAMAN RQPGAGLFALFT
10750	41118	A	10812	1	707	MGWRMGIWLRVFTVAKHLQR AESDQIGFRLKEHCWKRYAVR HPVKDVSFGFSPVLTVMRAPQ SN/PARRTVGWLRFRLRKR/ RKPRPLPLSPLHMDV/HAGNLV HSASGLKLIDW/EYAGDGDIAL ELAAVW/VENTEQHRQLVNDY ATR/AKIQPAQLWRQVRRWLP/ WLLMLKAGWFEYRWRQ/TGD RQFIRLADDSWRQLHRSNKESS RELVARLRVFAQSSGGAVDQE GGRVQCFREGL
10751	41119	A	10813	1	227	SFINVERYRAEPQTADAAPLKR GAFGSWLPEPDHYAED/DHQQ YLHKNPYGYCGIGGIGVCQAY KIVQIQYIARTA
10752	41120	A	10814	1	283	
10753	41121	A	10815	315	569	
10754	41122	A	10816	65	580	SDRS*IPVRPTHRDSGNRHDGSS GYCRCYG*HG*HRGIRYRCWPE KSQTRSGLLPLTVNYQERTYA AGRIPGSFFRREGPSEGETLIA RLIDRPIRPLFPEGFVNEVQVIA TVVSVNPQVNPDIVAMIGASAA LSLSGIPFNGPIGAARVGYINDQ YVLNPTQDELKESK
10755	41123	A	10817	235	1236	TDHDGRNDTQRIGSGERNRPF NANTAHHQCRFAGFALFCGEIF TTNQRQPHQRRDTNTHGSD GHHGINTLSNANQHEGIGHFVN RTAHIERQHQT DHRQHNNAA NSGTEVSQ*AR*HAAV*RYVAE REIHSGDRCGKRNSAHKIMPG WWCALPDTAPSLSKVVFVKGC PHLCPWCANPESISGKIQTVRRE AKCLHCAKCLRDADECPSGAF ERIGRDISLDALEREVMKDDIFF RTSGGGVTLYRGEDPAEDARY AHTNQPRQNKAVVDDEATDV GGAGTVKLNRCQIARISRQDVI TVASRCEHGFCHPCD TVHRHD GDHTGTEDFVF
10756	41124	A	10818	1	400	

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10757	41125	A	10819	783	1116	SVLHLYYEQNT\HDTRGYRPI KTLDIVPAFEASHLLWQSYENS WEQIFSASVGASWQKH YGTDV LTQLGYGQRHNDIIDAGATL RWEKRPYDGDREHNL YVEFD MTFRF
10758	41126	A	10820	3	474	TCGE/AASIVDRIRGFEPSSILV STLVLT LRPTGLLPLVTD SLPM RLLPTEIMAGSPIRS/RDISLGDD PGINGQRAQGTWERWTVRADE PQAFHIEGVMFQIRNVNGAMPF PEDRGWKDTVWVDGQVELLV YFGQPSWAHFQFYFNSQTHKV GPRAVA
10759	41127	B	10821	93	786	
10760	41128	A	10822	191	748	GPATPRQPFKVLASLGRLVQHG GRWDAQHLHNAVHLVDLIGAT EEGLSGVHLHKDAAQGPVNG QVVGCAQEHLR*AVEAALDIL VDPLAKLAGAAEVHNL DGAAL GVAQQDVFGLEVAVND AEAQ AWPERAVPCRAAAPASGSGSA RRRGSGCCAGGRTGCRTAAQIP STSGFRNMKCRFRCTI
10761	41129	B	10823	1	2724	
10762	41130	B	10824	116	2458	
10763	41131	A	10825	1	1317	

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10764	41132	A	10826	99	2052	NPADGRTGFTLCATGEALSSAT IAAAERRQALQEGCDDILS/HG DADMVSMAR/PFLADAELLSK AQSGRA/DEINTCIGCNQACLD Q/IFVGKVTSLVNPRACH/ETK MPILPAVQKKNL/VVGAGPAG LAFA\FNIAKQIPGKEEFYD/TL/ RYYRRMIEVTGVTLLK/NHTVT ADQLQAFDETILAVG/IVPRTPPI DGIDHP/KVLSYPDVLDRDKAPV/ SN/KVAIIGCGGIGFDTAM/YLS QPGESTSQNIAGFC/NEWGIDSS LQQADCDAPAKASKPGQGLGK TTGWI/HRTTL/LSRGVKMIPGV S/YQKIDDDGLHVINGANQGS DMLRLQGELDSASRIGRRSAAP KLGSLNDGRCFINCHILDRLPY KGLVPACSWNGGSLDPLEGRP DEPHVEVLGIPPAAMLDDQAPRL ASTLNGCLGVAGPYEDERTQE GLPGRDPTAAEEVLGVQTGGA GSRGRVVRGPQADLPSASGPGA ACWSMSPPPDQPPCVLAHGFFR RTPTSTQQRPAEQCFHSPAPLEL PLSSTSSILSFAEYGNAMAWLY RGKILPSGTPDDLKAQSANDGN PDPTMEKAFIQLIHDGIRSIAMS NPILSCRRYGRYQEWCLTIPAV FISAPYVRRYVRFHEHQEGGGV RQEATVREIPLAIAVIPNSRTPC
10765	41133	A	10827	1	525	DAMVSSWNRAAPNTIPTAAKA GGNYLSSLLVGSEARRHGYQE GIALDVNGYISEGAGENLFEVK DGVLFPT/PGFTSSALPGITRDAI IKL\AKE\LGIEVREQVLSR/EKS LYLADEVF\MSGT\AGEITPR\RS GNGYSLAKGRCPVTKRIQH ALQGVYSWVTPGYFESVRCTA
10766	41134	A	10828	8	573	REPAGENGPPVCDGAMLDLKA/ WGSECHQQLTGRDNQQIKRSIY LLPERAKLAELRLVIPGVQVDY LQHIEELAAFIKGLGDVPVRLN AFHAHGVYGEAQSWASATPED VEPLADALKVRGTCRDPKTRQ ASHQALCANCRRRERLIRPTV RHKPVGMIRRDKRRIRHYAPTA GCGVNALSGLRFGTDL

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10767	41135	A	10829	1	479	SNATNGIEPPRGYVSIKASKDGI LRQVVPDYEHLDAYELLGEM PGNDGYLQLVGIMQKFIDQSI ANTNYDPSRFP SGKVP MQQL KDLLTAYKFGVKTLYYQNTR/G RR*RRTRRSGAVNPGTMGCESG ACKNPGYLRMPGCRRTPLIPA LPGFGFW
10768	41136	A	10830	1	443	MDSLMDMLAST\QGRRMDDQR VTVSSLPGFQPVGSKAYKPSRR PDKAFTPHPASQYQILHAPLVA AIVSGLTAARVVFVRLQQPSLG VLSNTSGCDATNVVGR LQDNA SVSPGIVHTDSVIWRSCQVRRS AVHTLWRQKTRLFDAVDA
10769	41137	A	10831	1	323	MDLVTGSRKVIIAMEHCAKDG SAKILRRCTMPLTAQHAGHML VTELAVVRSFDGKMWLTEIAD GPTSQAQPAATYRIPLSNSRVR RRYRHRYYRYNLSIRKKRHRPL
10770	41138	A	10832	526	975	TPYPAYVQHVTGPRIIRRGKRRI RQCLPVLESRFHNTQKSRGETE GASGFSLQHHLGDSSRAAPGPY RVSTAAADSGGRAGSSAPSALV PRGC*GPSLAPAGRSQR*HRGG GQLSPAAPRTANKAAGLGPPA RLNFFIRAQCDSRINDITR
10771	41139	A	10833	1906	2049	PLSIIEADFRIWANAG*RMVAGI KPSIARVPLVLQVSALEVPEQC YRH
10772	41140	A	10834	1	808	MPKPNTRWSAWGLRRLKRKW SVARGSNLNRSVQYEFTGRGD RIGWVKGIDDNWHLTLFIENGR ILDYPARPLKTGLLEIAKIHKGD FRITANQNLIAGVPESEKAKIE KIAKESGLMNAVSPQRENSMA CVSFPTCLAMAEAEERFLPSFID NIDNLMAKHGVSDEHIVMRVT GCPNGCGRAMLAEVGLVGKAP GRYNLHLGGNRIGTRIPQITRRI EHRANDARTHRKVAEAFTRFA LFRPAPYQFIKRRQDFRLVMFSI YMPVPS

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10773	41141	A	10835	248	830	HHYRKMNIQQSKWLIVTVCDG KLNWLLSGSKVCCTWMLCVQ/ SEPELAKAWIFANLLAAFLIDDI IQPSLDFPPRRAEITIAADGTISA LNPGDPANTVAPVGRLLKLVKA TGSEVQRGDDGIFRLSAETQAT RGPVLQADPTLRVMSGVLEGS NVNAVAAMSDMIASARRFEMQ MKVISSVDDNAGRANQLLSMS
10774	41142	B	10836	328	481	
10775	41143	A	10837	14	675	FRKLQVCWLPRPHLRPWWTCK PRWFGSLRVFL/LERVI/GDV/ WGLRLWSALGVAFFG/WAFITS LQAKRGWMRIVPIILLAAALVS VRPLQDWAFGATHTAQTQTHL NFTQIQTVDELNQALVEAQGKP VMLDLYADWCVACKEFEKYTF SDPQVQKALADTVLLQANVTA NDAQDVALLKHLNVLGLPTILF FDGQQQEHPQARVTGFMDAET FSAHLRDRQP
10776	41144	A	10838	1	1413	GMALTYTALGLVVAAAGLQFQ AALQHPYVLIG\LAIVFTLLAMS MFGLFTLQLPSSLQTRLTLMSN RQGGGSPG/GAILLYIAQSGNM WLGGGTLYLYALGMGLPLMLI TVFGNRLLPKSGPWMEQVKTA FGFVILALPVNIAPGSLDKALNQ YAAHSGFTLSVDASLTRGKQSN GLHGDYDVESGLQQLDGSGL QVKPLGNNSWTLEPAPAPKED ALTVVGDWLGDARENDVFEH AGARDVIRREDFAKTGATTMR EVLNRIPGVSAPENNGTGSHDL AMNFGIRGLNPRLASRSTVLM GIPRPLRPLRSAAFTGSRFARQ HGCHCTWYAVVVRCVTDTS VGGVNVFVTRAIPQDFGIEAGIL MSDLKHGSLVGACLGRLGPGA VLYLAVAVLGVRVRRGVVLVC PLGGTGLGYSCQGGAFQFAAS CFLGRYGVVQGVIVHVCFGPRSV FLDDCLRFDLPCLVWLSCPR

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10777	41145	A	10839	1	908	LLKPFHVIAIATGRSLAVFCMG RLRTICSHATPPASAI/LLYI/AQS GTWGGGGTLYLYALGMGLPL MLITVFGTRLLPKSGPWMEQV KTAFGYVILALPVFLLERVIGD VWGLRLWSALGVAFFGWAFIT SLQAKRGWMRIVQIILLAAALV SVRPLQDWAFGATHGTQTQTH LNFTQIKTVDELNQALVEAKGK PVMLDLYADWCVACKEFEKYT FSDPQVQKALADTVLLQANVT ANDAQDVPTSAPFISPPNALVAI IVQLRFGDFYNRVSKGSRPTVF GRTLKARRITLSEKSILKAKIH
10778	41146	A	10840	3	808	SSGGHGRRAAGRLQHPLLRVH VPVVDTSVPCSRQLQWHHLPL CPGQLQHGHFHGPWCFFPSG*G *GQGGRLPGSAVQERGRCARYP GPHEVVCHVPLLPAAALLPLQR L*QLCRGL*PPLPLGQ/PTASGV ETIATSSCSCCHSVHTWWASWP SAWSTC*TTLRGWEPRTPPSRIL GSCGPHCRGDVDRGHVHPGE* AFQSLVPCQGTGPKGPMAPP*VG RGVSP/PGTRVEAALSCESPFA RQSMCFNLHTHSIDPKQSRRPY SDNVGKE
10779	41147	A	10841	2	646	CSWQPAVPTQPQAPGPSAPRQG LPGHSRGAQPALVSPHKGLTPV PGTPA/PASTPPAPAGGEGLPSP AAGAPPAHCPG/HPPAPATAAP VPGLCGPCPSLPACPQTR/PPTH VNTKKRV/PG/VRPAARRPWPP GCTWRGARTVTFLHQLNPGVN CQMLTVGRSGIRPTCTIASCSV NKLHPQMHPATQPHHRMALSP SHSEGPSHCWGLSLGDISPIPR
10780	41148	A	10842	3	550	

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10781	41149	A	10843	2	1132	LCLVMILYTRRRWCKRRRVQP PQSASAEAAANEIHYIPSVLIGG HGRESLRNARVQGHNSGTLIS RETPILDGYEYDITDLRHHLQR ECMNGGEDFASQVTRTLDLSLQ GCNEKSGMDLTPGGDGRKARL MNKYKDNIIATSPVDSNHQQAT LLSHTSSSQKRINNKARGMHV *H*GEGDSGTEAENDPQLTFYT DPSRSRRRSRGRNDRGGRNKTT LTLISITSCVIGLVCSSHVNCPLV VKITLHVPEHLIADGEPVLLRM GSQLDASDWLNPAQVVLFSQQ NSSGPWAMDLCARRLLDPCEH QCDPETGRREHRAAGNCQRDH ARAHSVWLGSPPYHDTSLRWS PMYTTMESAPHAFFPSVTADAE
10782	41150	A	10844	3	3935	HASGPGKLMALAGLCALLACC WGPAAVLATAAGDVPDSKELE CKLKSITVSALPFLRENDLSIMH SPSASEPKLLFSVRNDFPGEMV VVDDLENTELPYFVLEISGNT DIPLVRWRQQWLENTLLFHIH HQDGAPSLPGQDPTEEPQHESA EELRILHISVMGGMIALLSIL CLVMILYTRRRWCKRRRVQP QKSASAEAAANEIHYIPSVLIGGH GRESLRNARVQGHNSGTLISIR ETPILDGYEYDIT
10783	41151	A	10845	184	357	ALQGWSKNLH\PEDIQLGKTPP P*QVAQEGGWSRRVGSdTWIL EEQPGSTTRRVSVGM
10784	41152	A	10846	226	609	VILSSFDLIKHGILLEISDSIQFRG CKRSRIPELGGLEELW*PGDCR QPRP\WRA\GRHLQPGSLGSLVS KHQLRGSRKTL/YSAFRKCHLL SVWEGKPLKI*RGDQVADSSQK KQLAADAHTPYRGGDI

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10785	41153	A	10847	20	1317	SSHQKQMLAPCFLGSLQNWQH HTAGKGK/WVLGTCAFGEQLA ASGHMKETRADRSKKLFRHYT VGSYDSFDTSRGGRVRKPYAGF FPDLQDICDEQPRPLHSTLRPAC GGIQPGKQQPMPFAKTDTCASD KHVEKKLERLIHQAVSDAPEPS RVVKGIFIGGLPCARLWVVPYL MGHVQEVTMAEGYERASQATF REQMQEVPCCCLRSTGSSMKT GNKIRRVTDNVLTRSGPLINDIL SVAVDSSVSVLWMHLFSSHPL GIVRYWCGMGISCKLLLLTRVC YLITPLDLERFPFPNTEQVTFPE RRVSVFLLPLSWCLDTRLPREP GCRSRDSFTHRVSFVSPTPTSG DVPGSHPFCDKPVRRGDDPYIR NDRGTLYSTLQFISTCVQVVG YGHLPGFKSDAAQAVPRLLSQ KRDQNHKEEITDGDERP
10786	41154	A	10848	1930	5781	RAKSPANIIMTGSNSHITLTN VNGLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
10787	41155	A	10849	1	3654	
10788	41156	A	10850	1	5127	
10789	41157	A	10851	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEITIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPI TGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGFRPISLMNI DAKIL
10790	41158	A	10852	1	3663	

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10791	41159	A	10853	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQE QTHSKASRRQEITKIR AELKEIETQ
10792	41160	A	10854	1	3354	
10793	41161	A	10855	1	5073	
10794	41162	A	10856	1	3235	
10795	41163	B	10857	1	3300	
10796	41164	A	10858	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPIGTAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKLQFSIEKEEI LPNSFYEASHILPKPGRDITKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSLAIREMQI KTTMRYHLTPVRMAIHKSGNN
10797	41165	B	10859	1	3420	
10798	41166	B	10860	1	4019	

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10799	41167	A	10861	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSLQRLDLSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITDPTEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGTAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLQFSIEKE GILPNSFYEASHILIPKPRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPIGM QGWFNIRKSINVIQHINRAKDK NHMISIDAEKAFDKIQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWKNI CSWVGRINIVKMAILPKNITL QLLLVLPELSTLIPLWLPALAGQ
10800	41168	A	10862	1	4449	
10801	41169	A	10863	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNNLL NDYWVHNEMNAEIKMFFETNE NKDTTYQNLWDAFKAVCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
10802	41170	A	10864	1	3297	
10803	41171	A	10865	1	4791	
10804	41172	A	10866	3	3316	
10805	41173	B	10867	1	3415	
10806	41174	B	10868	1	4753	
10807	41175	B	10869	1	3384	
10808	41176	A	10870	1	3345	
10809	41177	B	10871	1	3772	
10810	41178	A	10872	1	3720	
10811	41179	A	10873	1	3894	

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10812	41180	A	10874	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLQRLDLSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLS DHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEIETQ
10813	41181	A	10875	1	3780	
10814	41182	A	10876	1	3852	
10815	41183	A	10877	1	3345	
10816	41184	A	10878	965	4362	TWKGTTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFFSAPHHTYSKI DHIVGSKALLSKCERTEITNYL SDHSAMKLELRIKNLTQNCSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTNQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREKNQIDT
10817	41185	A	10879	1	3921	
10818	41186	A	10880	1	3988	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSL QRLDLSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLS DHS AIKLELRIKNLTQS RSTTWKLNNL
10819	41187	A	10881	2	462	YFTDRLRLARLAGTPL/IMFGTIA RSGVRIVSREPLNRRAILIIALSL AVGLGVSQQPLILQFAPEWLKN LLSSGIAAGGITAIVFSLAGHPA LATNAQPMEAFLLHQTTFFQNL IRVKEAICSDQFNTTMFRGLQG NSACTKCNPRCLNELTPTE
10820	41188	B	10882	16	163	

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10821	41189	A	10883	2	1509	RDEVNGCIRLVYDMYSTFGFEK IVVKLSTRPEKRIGSDMWDRA EADLA VALEENNIPFEYQLGEG AFYGPKEFTLYDCLDRAWQC GTVQLDFSLPSRLSASYVGEDN ERKVPVMIHRAILGSMERFIGIL SEEFAGFFPTWLAPVQVIMNI TDSQSEYVNELTQKLSNAGIRV KADLRNEKIGFKNRSGELSHLP PINQSKPRNFPSAALPQVPQPTH LSQRPRASPKPPPPDPERVELSL EEHREMLEGFYEEISKGRKPTLI LRTQLSVRVNAILASLESVKPL YTMALGLLVKYPDSALGQLRIE STVDGSRLYITGNVLFQHVKF HAFLLYLGYTPQAAREVRIMQF CHTLREFALEYRTCRRERVLQQQ QKQATYRERNKTRGRMITETE KFSGVAGEAPSNPSVPVAVSSG PGRGDADSHASKSLTSTRPED TTHNRRSRDRHGPRGCQVCSA QPSLLRAVPVADMALMTGKD CPPCPGKRLRGAEGLPL
10822	41190	A	10884	296	757	ISFRRRALSPKAESSLSILPRE KRSPSRTWILTPRRLFSLAISSKS AGNTLSSRIFK*KA*ACK*RGR VSTRCRIFLALFIVTIKHLMMR STASNRQYSISIWILPCWSARC FSIKIAGIPAEPPRYLLISPGILTG LKINFFTTVSFW
10823	41191	A	10885	1	519	MGLPWQVGMGAIFWGAIGLLL LTIFRVRYWMIANIPVSLRVGIT SGIGLFIGMMGLKNAGVIVANP ETLVSIGNLTSHSVLLGILGFFII AILASRNIHA AVLVSIVVTTLLG WMLGDVHYNGIVSAPPSVMTV VGHVDLAGPIGNSLV/GCPYFAI LRRFSDGSGGLGRNQI
10824	41192	B	10886	1	3489	
10825	41193	A	10887	817	1528	WGSRDNRDEIRNTLVLDTLRLQ RVCAQRAFLVLFVLGKVTFEEL NFTFILVIQNVRGDTVEEPTVVR DNHRTARELQQGVFQRAQGF IQVVGWFVEQQHVAANLSRCR LVNTPTQQVRFSTATFRVIWRV TPTAGKLSGGFLFKMYGLPAA AIA NGTLLNQKTARKWAVL*SP PALTSFLTGITEPIEFSFMFVAPI LYIIHAILAALFMWKFVPETKR KTLEELEALS NRJAAE
10826	41194	C	10888	1	573	

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10827	41195	A	10889	2321	2554	WRKRCVKVRNLSPLCLPDRKL TLPCCSIAIRNCIAKLPVS*LWV ALWGWVTGRLRLNLIFTLTRK RQKLSSSQGSRW
10828	41196	A	10890	1	4350	
10829	41197	A	10891	137	686	KLLELRSKREAGMLERSSSRMV TCSQWAATRNPVVALPIYGFIE RCLVPFGLLHIWNVPFQMIGE YTNAAGQVFHGDIPRYMAGDP TAGKLSGGFLFKMYGLPASAIA IWHFVKPETRAKVGGMIFAAL TSFLTGITEPIEFSFMFVAPILYII HAILAG\WHSQSVFFWGCVTVR RSRTV
10830	41198	A	10892	3	3831	SIGMMGLKNAGVIVANPETLVS IGNLTSHSVLLGILGFFIAIL/AS RNIHAAVLVSIVVTLLGWML GDVHYNGIVFAPPSVMTVVGH VDLAGSFNLGLAGVIFSMLVN LFDSSGTLIGVTDKAG\LADEK GKFPRMKQALYVDSISSVTGSFI GTFSVTAYIESSGVS VGGRTG LTAVVVGLLFLLVIFLSPLAGM VPGYAAAGALIYGVLMTSSL ARVNWQDLTESVPFITAVMM PFSFSITEGIAL
10831	41199	A	10893	6	146	
10832	41200	C	10894	1	1197	
10833	41201	A	10895	1	763	MCSEKVAMCCDDDDDDDDDD DDDDDDDDDDYSCSHGFWDFFSY TWNTSIPQGHLMGSPKGLVE IRDKLGDRTQRVYIQRITGNL EFENPCKQFRGLTRMYIRRLTR LSVQWYMVALERPVLQKYRY RGSKAHETSHSMSTVTSSNEKQ DNTRIDTQGATNR/VATLRHRE TVLANEVAPYAATDNVLAAS DVGDVSWKLPVAQCFSPCFV GTPLHTWQ/SGLLQECQEHQQ VTDTPYHCPKPNVTPSPLK
10834	41202	A	10896	2	412	LFEFTLDVKVRESPIL\FRDESM RTACSPDGLCSNGFGLELKCPF TSRDFMKFRLGGFEAIKSAYMA QVQYSMWVTGKDAWFFANYD PRMKREGIHHVVVERDPQYMS DFNEMVPEFIEKMDEALAEIGL TVRELGI

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10835	41203	A	10897	3	663	ARGKKPPRRGKEDFWDLSIATR VSVNPIKFPVEA*PFLKPLQQV S\GPLGGRLPLPIPGNLLLQVAD GTLSLTGTDLEMEMVARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSLTPAADFPNLDDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
10836	41204	A	10898	377	1077	WRGQRCLASVFPHPGAEGRG RPVFRAETIFL**SRRGLAR/TGR RKLPVKLKAADFPNLDDWQSE VEFTLPQATMKRLIEATQFSMA HQDVRYYLNGMLFETEGEELR TVATDGHRLAVCSMPIGQSLPS HSVIVPRKGVIELMRMLDGGD NPLRVQIGSNNIRAHVGDIFTS KLVDGRFPDYRRVLPKNPDKH LEAGCDLLKQAFARAAILSNEK FRGVRLYVSESQKLSRQ
10837	41205	A	10899	591	871	VRGFPSGAEQLYG*SVSLILLIP NLSNSG/RTGFPVAPLPYSKSPS DFMSLLISTVPGSQL*QPIQRAE LVCTTCSPIVSAPTQAPTQGAF SH
10838	41206	B	10900	1	1765	
10839	41207	A	10901	1	1177	MKSLIIVNPADCIGCRTCEVAC VVAHPSEQELNADVFLPRLKV QRLDSIKRFWEQMMRIVTA MASTLAVSSLSHAAEVGSGDN WHPGEELTQRSTQSHMFDGISL TEHQRRQMRDLMQQARHEQPP VNVSELETMHFPGMLFETEGEE LRTVATDGHRLAVCSMPIGQSL PSHSVIVPRKGVIELMRMLDGG DNPLRVQIGSNNIRAHVGDIFIT SKLVDGRFPDYRRVLPKNPDK HLEAGCDLLKQAFARAA\ILSN EKFRGVRLYVSENQLKITANNP DQEEAEEILDVPYSGAEMEIGF NVSVMVDVLNALKCENVMM LTDSVSSVQIEDAASQSAAYV GMPMRLEGSPPLGNPEFQKISSP CALYIALCSKARHHTGRYLGLC
10840	41208	A	10902	527	925	

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10841	41209	A	10903	1	1514	MAFGFLFWLIWILMSTITRGIDG MSLALFTEMTPPPNTEGGGLAN ALAGSGLLILWATVFGTPLGIM AGIYLAEYGRKSWLAEVIRFIN DILLSAPSIVVGLFVYTIVVAQM EHFSGWAGVIALALLQVPIVIRT TENMLKLVPYSLREAAAYALGT PKWKMISAITLKS AVVGNMTRI L LRMAPIVVKTAPLLFTALS NQ FWSTDMMQPIANLPVTIFKFAM SPFAEWQQLAWAGVRNLFYY GKFHALKNINLDIAKNQVCVC YNQCTESLVNGLYANAAHLVS VGQRSTGNSSVIKARQGSSIRP MIVKYSALCLCRMRSERFIRRT KHRKFDRLQCTCRPDKRSASG NLAFVISLRPVPLVAVVFALFA AFPMFSDVSIQLRHFIFANFLPA TGDVIQRYIEQFVANSNKMTAV GACGLIVTALLMYSIDSALNTI WRSKRARPKIYSFAVYWMILTL GPLLAGASLAISSYLLSKQWAI DIDSVNRLGAILTALITGDT
10842	41210	A	10904	900	1250	WYACDQCQTCLPDHAPECAVA *AKTCCTAIETGTYRQSGRERK QSAMVL*RVRVLL**RRETACH VRAGLL*S*GTALGGHYRRLQQ *NSTGRHAGSGGTPLRQRSSVV SSGVADG
10843	41211	A	10905	626	850	LRFCLVFNILSRYSLISTVQKFSP AMLNGTLPLENILH*LRNITAIM NLVIFHGLSA*SVCYIPGRGSV MSDRV
10844	41212	A	10906	307	858	
10845	41213	A	10907	698	1115	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHSGTRGRRAR FSVRATYAAGRLATIPGYRGGP LGLMCGQPNRKPTDGANERLT MIRAATAMSE
10846	41214	B	10908	1	721	
10847	41215	A	10909	1	2615	
10848	41216	B	10910	1	1164	
10849	41217	B	10911	1	1930	
10850	41218	A	10912	689	1033	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHDGPEHSVFM PSR*APMTR*KIYSSPPYRSSQR AHRHA

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10851	41219	A	10913	393	686	NPSQLWEAAPPQWKWIQGAGK VSCQLSRAADQLGRQHHSIDPC FSIVPLIL*FAAYFPINPAVLKLA PVALYADAIRYNARTPLQGSLL PLTRLVWA
10852	41220	A	10914	1313	2370	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHRANPDANV SEDLRESVGKSVVNLHIGVRD MAAIRQLKATHTDSVSSEQVD NVRRLMLAMVDDFCVVIKLA ERIAHLREVKDAPEDERVLA ECTNIYAPLANRLGIGQLKWEL EDYCFRYLHPTEYKRIAKLLHE RRLDREHYIEEFVGHLEAEMK AEGVKAENVYGRPKHIYSIWRK MQKKNLAFDELFDVRAVRIVA ERLQDCYAALGIVHTHYRHL DEFDDYVANPKPNGYQSIHTV VLGPGGKTVEIQIRTKQMHEDA ELGVAAHWEI
10853	41221	B	10915	1	1556	
10854	41222	A	10916	1566	1947	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPH/ECAGLSLAT GISAAAGL*WARRSFIQRDSRD PRYRAPIRIHPLPGANHLRQ
10855	41223	B	10917	1	1571	
10856	41224	A	10918	2024	2589	QDMQNLLVLRETSVKPEYPGL KVPEAFR/RIQGRKGEPGEGAY VYRSAFSVFQKPRFSCALGGAI AASWAGGGAPSPCGRAELPW GPGPVGVAQTVCPRPRRERRL RGEREAAAADKVMARRWRKSR RRKRKEMEERMSPEETEGTNF DFAGEAVGQAERKGPAFSAAE ESFHEEEKRRRKEQSDLTF
10857	41225	B	10919	690	2724	
10858	41226	A	10920	3892	4338	

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10859	41227	A	10921	2573	3473	ANGARLALPPLGTFQGRQLRRR RPRWRRRRPGEASGPVMRLRG PRPGASAPWDGGSQVAR*WC PFPSQGWGGSQGGQGDGAR FRTHRAKVQQDGDGR*DEADG VHRHAPLQGRLLVLVQGVGADE REDDAGNEGLQHLQPPGYGGH IASDLAGPGPGPHFGGVSHTR DAGEEGGDDGVVPRTAVGQEL DIGGGVDDGGREAEEGRIAGEG DGEVAPRQGEAGLEPAQLHDE DDQGHGEAEAPGEHGPVAHGP RPGAHASHQREGHAGRHLQQA AKETQGLCQGRPHDHGGPQ
10860	41228	A	10922	819	1274	NPLPRLQLRRQLHLPSVRNCCQ TRRCGR*HRQLRQ*ARRKLVR SVYFGSLRQLLREEWK*Y*RV *VLGWYSAVSTSSLPFDYCFLP NSDGYRRVDPGSLSGHPFLYQ RYGWQHDDVHQPDGLGPPGS LHPDPACFRCVLRNCGNLLA
10861	41229	A	10923	720	3546	RDGRKPLQPDAAARNCGGSQSQ RSGSRKRRGDRRI/TLMSLKTRK ANRWA*SFRKMAAISTP/RTDI ACAKYRYETLHADRVLYYIDS RQHQLMQAWAIVRKAGYVP ESVPLEHHMFGMMLGKDGPFP KTRAGGTVKLADLLDEALERA RRLVAERTRYSAKSWKTVFRL VIGEQMIDVLGPEKRRRRTTQE KIAIVQQSFEPGMTVSLVARQH GVAASQLFLWRKQYQEGSLTA VAAGEQVVPASELAAAMKQ
10862	41230	A	10924	764	1227	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHNPTLEWFLS HCHIHKYPSTLIHQGEKAET LYYIGKGSVAVLKDEEGKEMI LSYLNQGGDTIGDLGLFEEGQER SAW
10863	41231	A	10925	2467	2653	WLPFGLSHHNSPHPTSWGANG GFCQLLSMSVLIMHSGTLGAH WDFSPVIGLEANRGVGDGS

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10864	41232	A	10926	1	860	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAL GVMMTQGTLFDAITIEAPSSTK NKEQQRDPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEKQF VSAMPATKEPQREELAEVDVD LLIAERPGKVTKL/TESAQ/GT KRPSTSNT*KPASVPGWSTRFA SSSGSSAS
10865	41233	B	10927	754	910	
10866	41234	A	10928	2395	3454	
10867	41235	A	10929	1	1377	MSCMTPASDGTIFISIDDEEAKQ FRESVVEWLMTNHPHDCPVCE EGGNCHLQDMTVMTGHSFRRY RFTKRTHRNQDLGPFISHEMNR CIACYRCVRYKYDYADGTDLG VYGAHDNVYFGRPEDGTLESE FSGNLVEICPTGVFTDKTHSER YNRKWDMQFAPSICQQCSIGCN ISPGERYGELRRIENRYNGTVN HYFLCDRGRFGYGYVNLKDRP RQPVQRRGDDFITLNAEQAMQ GAADILRQSKKVIGIGSPRASVE SNFALRELVEENFYTGIAHGE QERLQLALKVLREGGIYTPALR EIESYDAVLVLGEDVTQTGARV ALAVRQAVKGKAREMAAAQK VADWQIAAILNIGQ\HPLFVT/N VDDTRLDDIAAWTYRAPVEDQ ARLGFAIAHALDNSAPAVDGIE PELQSKIDVIVQALAVFRLVIGE QMIDVLGPEKRRRRRTTQEIAN
10868	41236	A	10930	19	586	IAALLKDKHPAMLLAATKRG KALAARLSVQLNAALVNDA VDIVDGHICAEHRMYGGFAQE KINSPLAIITLAPGVQEPCTSDTS HQCPTETVPYV/APRHEILCRER RA\KAASSVDLSKAKRVVGVG RGLAAQDDLKMVHELAAVLN AEVGCSRPIAEGENWMERHAQ HKS WNPLSWAPLGSQAHP

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10869	41237	A	10931	1	1364	MLRILCLALCSLLTGTRADPGA LLRLGMDIMNREVQSAMDESH ILEKMAAEAGKKQPGMKPIKGI TNLKVKDVQLPVITLNFVPGVG IFQCVSTGMTVTGKSFMGGNM EIIVALNITATNRLLRDEETGLP VFKSEGCEVILVNVKTNLPSNM LPKMVNKFLDSTLHKVLPGLM CPAIDAVLVYVNRKWTNLSDP MPVGQMGTVKYVLMSAPATT ASYIQLDFSPVVQQQKGKTIKL ADAGEALTFP/RGVMPKA/PPQL LVPATFLSAELALLQKSFHVN QDTMIGELPPQTTKTARFIP EVAVYPKSKPLTTQIKIKKPPKV AMKTGKSLLHLHSTLEMFAAR WRRKAPMSLFLEEHFNLKGQ HSLHENQLQMATSLDRLLSLSR KSSSIGNFNERELTGFI TSYLEEAYIPVVNDVLQVGLPLPDFLAM NYNLAELDIVELGGM EPADI
10870	41238	A	10932	111	415	VSALSLLHRA PRCRRPSLPLQ DAGLHGWEHGVQ RGRGPAAH RDPV*EGWHHSGH LAQGHSEG *PCGDSETPAGRE GKTAGHRTG RCGCRQEQT EGAQQD
10871	41239	A	10933	2	219	FLGGEGVIFPRG WWGAAMRFV STGSRHTTP*GSE KSAGPHTQW HQNSK*ATSETRL HSCASEGIVP AGCRPY

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10872	41240	A	10934	1	2358	VPMVVVPPVGA KGNTPATGTT QGKKAEGTQNQSKKAEGAPNQ GRKAEGTPNQGGKTEGTPNQG KKAEGTPNQGGKA\EGTPNQG KKAEGAHNQGGKVDTPNQG KKVEGAPTQGRKAEGAQNQA KKVEGAQNQGGKAEGAQNQG KKAEGAQNQGGKAEGAQNQG KKAEGGQNQGGKTEEAQKQG KKAEGAQIQGKKNEGAQTQGK KAEGAQNQGGKNEGAQTQGK KAEGAQTQGGKADGAQNQGGK KAEGAQNQGGKAEGAQNQGGK KAEGAQNQGGKADGAQNQGGK KAEGAQNQGGKAEGAQNQGT KAEGAQNQGGKAEGAQNQGGK KAEGAQNQGGKAEGAQNQGGK KAEGAQNQGGKAEGAQNQGGK KAEGAQNQGGKAEGAQNQGGK KAEGAQNQGGKAEGAQNQGGK KAEGAQNQGGKAEGAQNQGGK KVEGAQNQGGKAEGAQNQGGK KAEGAQNQGGKAEGAQNQGGQ KGEGAQNQGGKTEGAQGGKA ERSPNQGGK\GEGAPIQGGKAD SVANQGTKVEGITNQGGKAEG SPSEGKKAEGSPNQGGKADAA ANQGGKTESAFVQGGKNTDVAQ SPEAPKQEAPAKKKS GSKKKGE PGPPDADGPLYLPYKTLVSTVG SMVFNEGEAQRLEILSEKAGII QDTWHKATQKGDPVAILKRQL
10873	41241	A	10935	967	1574	SLKCLHLSLSPVHSPGKRPEVSF SPINSGQPPNYEMLKEEHEVAV LGVAYNPAPPTSTVIHIRNETSV PDHV/VLVPVQHSLHEP\CCLGF IAFAYSVKSRHRKMVGDLTGA Q/ALCLHRQVPEHLGPDFGHPH DHS AHHHP SVDLPSLPSS FLLL F LFLFLPALQLLFLSFLSV FFFF F FFPLFQRLELWGWGEWDH HST
10874	41242	A	10936	3	370	RVATIVDIWEKSISGKKNSQNL FVNPCCLGFIAFAYSVKSRDRK MVGDLTGAQA/LCLHRQVPEH LSPDCGHPHDHSAHHHPGVDL PSLSIDQEASSRPGARALQDGA WASVFPSVQWEQQGW

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10875	41243	A	10937	76	614	PDRRWSSLDTMNHTGQTFSPV NSGQPPNYEMLKEEHEVAVLG APHNPAPPTSTVIHIRETSVPD HV/VLVPVQHPLHEP\CCLGFIA FAYSVKSRDRKMVGDTVGAQ/ ALCLHRQVPEHLGPDSGHPHD HSAHRHPSADLPGLWIDQEASL RPGALPMTICIPRTPTSIPRPAPR GQELCP
10876	41244	B	10938	695	1011	
10877	41245	A	10939	410	5501	EAKTHKSVVMTDPLLDSPASS TGEMDGLCPELLLIPPPLSNRGI LGPVQSPCPSRDPAPIPTGCL LVEATATEEGPGNMEIIVETVA GTLTPGAPGETPAPKLPPGEREP SQEAGTPLPGQETAEEENVEKE EKSDTQKDSQKAVDKGQGAQR LEGDVVSGTESLFTKTHMCPECK RCFKKRTHLVEHLHLHFPDPSL QCPNCQKFFTSKSKLKTLLRE LGEKAHHCPLCHYSAVERNAL NRHMASMHEDIS
10878	41246	A	10940	446	1704	GGPDMDARAPAVGGSCHQHGP SGAPGP/CIGRMES/EVGVRDHA IPEGARCNRFRKETTEGPLHCSR CGLLCPSPASLRGHTRKQHPRL ECGACQEAFFPSRLALDEHRRQQ HFSHRCQLCDFAARERVGLVK HYLEQHEETSAAVAASDGDGD AGQPPLHCPFCDFTCRHQLVLD HHVKGHGGTRLYKCTDCAYST KNRQKITWHSRIHTGEKPYHCH LCPYACADPSRLKYHMRIHKEE RKYLCPECGYKCKWVNQLKY HMTKHTGLKPYQCPECEYCTN PADALRVHQETRHREARAFMC EQCGKAFKTRFLLRTHLRKHSE AKPYVCNVCHRAFRWAAGLR HHALTHTDHRPFFCRLCNKYA KQKFQVVKHVRRHHPDQADPN QGVGKDPITTPTVHLHDVQLED PSPAPAAPHTGPEG

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10879	41247	A	10941	1	944	MSILLTSIARQSRDKRTRLGHK QRILAGLGSNHPIRRNLQGLRR FALVDRQLVVQNVVTRWCRM VYQSAANVFIQHRPISHDERVQ QRGTAITMMVQQAQWAERGK SGLSGVAIGPAVDTSALQAQLR ETLPPHMPVVLQLPLPLSA NGKLDRKALPLPELKAQAPGR APKAGSETIAAAFSSLLGCDVQ DADADFFALGGHSLAMKLAA QLSRQVARQVTPGQVMVASTV AKLATIIDAEEDSTRRM/WIRNH SAVA*R*WPDVLPSCVRFLC AVQRALALSRSTMVDYRHSVT APQWPHADGGKPG
10880	41248	A	10942	1	939	MRTILTIDIQLRYPRRPGAFGTH TFLKCAFSNKQRRFTVKRFAFL AARYPASQEMPPVRHGHAVAA AIPCGNVPANGNTPARYKGQC GLCSSTLQDALRDFIQVAHTCEI PLMPACFGLADDKLWRWLNE KLPCSLMLLPTLPPSVLGIRLQN QLQRKIVLFGGVWMPGDEVKK VTCKNGVVNEIWTRNHADIPLR PRFAVLASGSFFSGGLVAERNG IREPILGLDVLQTATRGEWYKG DFFAPQPWQQFGVTTDETLPSP QAGQTIENTLFAICSMLGGFDP AQCGGGVCAVSALHAAQQIA QRAGGQQ
10881	41249	A	10943	25	479	
10882	41250	A	10944	2	453	APSRTSGSSVGLQGSYVLDVDG REFGCERVKG*FLVHRAGHL/L TLWLFSSQINKMEWWSRLVSS DPEINTKKINPENSKVSPGWL ELQQEGEGPRCFQSFTDSCHCL PS\SDLDSETRSMVEKMMYDQ RQKSMGLPTSDEQKKQEILKK

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10883	41251	A	10945	3	1110	RDPQERRERGTRVQSSGTWIGA GAMGGEQEEERFDGMLLAMA HQHEGGVQELVNTFFSFLRRKT DFFIGGEEGMAEKLITQTFSSH NQLAQKTRREKIARQEERREK AERAARLAKEAKSETSGPQIKE LTDEKAEKLQLEIDQKKDAENP EAQLKNGSLDSPGKQDTEEDDE EDEKDKGKLPNLGNGADLAQ *RLNPDPCRELDLAVPFVCVNR LK GKDMVVDIQ/RRQHLGVGL KGQPAIIDGELYNEVKVEES\SW LIEDG\KVVTVHLEKINKMEW WSRLVS\SDPEINTKK\INPENS KLSLDSETR\SMVEKMMYDQ\ RQKSMGLPTSDEQKK\QEILK\K FM\DQHPEMGFFPKAKFPTNPC
10884	41252	A	10946	50	426	
10885	41253	A	10947	1	942	QVWKQNCFKHYSNETDNSTTQ LVGLQTLQVVVPSLILCEHCMN FSSPHVWCCLVQAVPGGQGQTI MQVPVSGTQGLQQVSNI*KY*A VYQRRGFKE*IITTYQTQQIIQQ PQTAVTAGQTQVIPLALSHRSK TDLEESDN*VRYFPVNADGTIL QQGKCTHKL*DFLGQLFCPLD N*HLSSSGQGTVTVTLPVAGNV VNSGGMVMVRKCIFQLCL*NF LEHAT*CLLKFEPLYVNAKQYH RILKRRQARAKLEAEGKIPKER RVCITLGRI*ERRIAGFYF*NYLL YPKEKDSPHMQVGRHIHFILLFI TLY
10886	41254	A	10948	24	378	
10887	41255	A	10949	15	658	QRPNAAQTPSRGCQLSAPARA GRFHPQSCRPSRVGCKGHVCIP GDRSLALWPPRLGCGE*TSSAL DSQGILVSNFPHEGS/PTPQQSG LKTGRILLNHGRRRLKVSQSEG RFLEVGWKQRGPTAHRTHSNR TRRRHALSTGGDTGRARNARS GGGRSPRSSLPAASSTPGVCWS PRMSQARQPPSCRRGVPRRPEM LRSLPSCQICVCVFRH

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10888	41256	A	10950	1171	1639	PMALWADGRARHKVGTCEC GMHPGLKCSGRTLGSQTMLAT TPCDSPT*/SNKNGLRSV/SYR* CLINALWLFSISPHILVRCGTESS *LLPSLVPSWLP*LVRVRPLPT GWC*IPSCCLKPPTWSSHSPQ RLP*NPATLVCLQNGTARSHSS TPV
10889	41257	A	10951	2	357	HERLLNPGRETDWATCYSETAS CSVA*ATVQ*HDHGS*PQTPG LKWFSHSLPSSWDYRHVPPCP ETGPCPVTQDGVQWSYHGS*P QTPRLKQSYHVSPLSSWDYRW EHPVAGKQA
10890	41258	A	10952	15	578	IQTPPKGRRTKPCRQKRTIVTP RQSTPRSNRGKDTRSKQRDETT E*TTRAQDTNKEGATQDRTETA RRTQSNMEKEKPNQHNRKRKD RDSRKDKGHERETKNTERNRT KRREKRKDNKHNEAKSQRQTR KKKETKETATRKREEPSNSCSM HPFQISWLHSVGDNGRRDQLLC QGFHLYYLMCFPQ
10891	41259	A	10953	2	369	DIDPTGLQSQSGSPKGQDPPLMF SEDYQKSLLEQYHLGLDQKLR KYVVGELIWNFADFMTNQCQP KTTSPVILFLPSCEEPQANKATL VCLMNN/FYPGILMVTWKADG TLITQSVEKTTPSKQS
10892	41260	A	10954	1	417	FGTGPSASPRTSFRHQCGH*PH WTA VTVDSQGAGQPKTTSPVIL FLPSCEEPQANKATLVCLMNNF IPGILMVTWKADGTLITQSVEK TT/PSKQSNNKYVASSYLSLTPE \SWRSRRSYSCQVMQEGSTVEK SVAPAECS
10893	41261	A	10955	113	767	GPMRPGTGQGGLEAPGEPGN LRQRWPLLLLGLAVVTHGLLR PTAASQSRALGPGAPGGSSRSS LRSRWGRFLLQRGSWTGPRCW PRGFQSKHNSVTHVFGSGTQLT VLSQPQ/ALTPSVILFLPSCEEP QANKA\TLVCLMNDFYPGILTV TWKADGTPITH\GVEKTTPSKQ SNNKYVASS/YTSLTPEQWRS RRSYSCQVMQEGSTVEKS\VAP

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10894	41262	A	10956	1	344	GSAAGQVQQQQRRHQQGV TVKYDRKELRKRLVLEEWIVE QLGQLYGCEEEEMPEVEIDIDD LLDADSDEERASKLQEALVDC YKPTEEFIKELLSRIRGMREN*A PPPKKSV
10895	41263	A	10957	3	349	TMNNMRGQILLFLLIWLWNR YGQLVGSSEKHKIASQLELIQS QFHYCVTLDKLLNFSEPVHVK QEQLLSVCSEKEVTEVKVLALV NHVGSKCCFLIFCSGPS*PKFSV SQVFSD
10896	41264	A	10958	998	1383	
10897	41265	A	10959	39	402	TDHIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDCQQCMLEILDAG TEQFTAMRDLYMKNQGQFALV YSITGQSTFNDLQDLREQILRG* RTREDV\PMILVGN
10898	41266	A	10960	25	739	YKKNFDISLLSVKCECTHMLT SSSL*C*NLICRSLFLIDFNL*AG FVI*VGFTAQSTFNDLQDLREQI LRVKDTEVDVSIFSLCKMLCHLS VAK*KSA CFQNLARQWCNCAF LESSAKSKINVNEVTYNCWAA QTS AFLVCFKL TARLLALSITNV SSCTGWGVQRSHQDQGN SKHA ASSVWKVGF GIVRLGTGTCLSS LERGYMCM EKEMFDPTPSRV LKPRSEALELFGPLKSLT
10899	41267	A	10961	946	1424	YFRFLCVIFCSFLLRCLVSRVLL YPMLIAEIPRVQGRGGPSWPGL GGRLLKELSRLLTFLKVRKLSIL SGWREVPLGQPSLTEPP/PPAPP HPGPGSWLASASAPHL SQPPAA GPAGQPPSPGSPVPGGCSLALP VTSVLCLEPPALKPAAASAPVV AVH
10900	41268	A	10962	1	148	TALQEFGTRSGIPALGCPPDP* PPPGSCPPPEQLLSVGEPSCS CSP
10901	41269	A	10963	10	233	LGAARRAQLLESWPRA\PPPAR LHACHLQP/LPRTPKVHTS*PTQ QQGGFSLCLKKKNVPVSVEMIC SSARLKLTE
10902	41270	A	10964	1	331	RPLLLSTLCWELRAALSYWRA GRAPPPPARLHAGPASGFVWLT PSGGEEGEPRTHLWGGGGRRG GGRKKD*GGQGRGAGGFATF SPPANAPRLHTSLTNSSARWIFL CV

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10903	41271	A	10965	4	1023	FPRAGEKPYTCEESGRAFNQS* TLTTHMTIHAG*KPYKCEECGK AFYRF ⁵ SYLTKHMIHTGETFYK CEECGRGFNWSSTLT ¹ TKHNRIHT GEKPYKCEQC ² GKALNESSNLT AHKIIHTGEKPYKCEECGKAFN RSPKLT ³ AHKVIHSGEKPYKCEE CGKAFSQSSILT ⁴ THKRIHTGEKP YKCEECGKAFNRSSNLT ⁵ TKHKII HTGEKSYKCEECGICRTPKMAV FSQCHQVLKITNIHYPSSIATIVH GDRAQSHVDICTLGDKASGAII GTAFYTTQCEQRAYNETAVSR YTISRPPSHHGGDSETTEFSPA GRCNGVHKSWGSNRCSDRWRS
10904	41272	A	10966	1	290	
10905	41273	A	10967	1	1508	MSWAARPPFLPQRHAAGQCGP VGVRKEMHCGVASR WRRRRP WLDPAAAAAAAVAGGEQQTP EPEPGEAGRDGMGDSGRGEC SRRAGEPVTALSATPPPPFPVIS SSMGSPGLPPPAPPGFSGPVSSP QVRGCDQLTAWPLSFSCFPCNP VLGVRGLHCPPPGGPGAGKRL CAICGDRSSGMWLRG*TERESL GHVSSPVG*DLTYSCRDNKDCT VDKRQRNRCQYCRYQKCLATG MKREGKDPPCPGVLDHMPFSLI PLRPPEEMPVDRILEAELAVEQ KSDQGVGPGGTGGSGSSVS GVNPLSFVMGVGGGSLGLWAK RIPHFSSLPLDDQVILLRAGQ*P WIPLTS*HLTPL*LPDLFLATGL HVHRNSAHSAGVGAIFDRSVA LG*AGM*IEGVGL*AGPCLRAII LFNPGKRRITFVSQGGNLGAS SSPMETYCKQKYPEQQGR*DG AGGH*GSLGGGECYEDVFLFFF KLIGDTPIDTFLMEMLEAPHQL
10906	41274	A	10968	945	1131	MICTVAISYVLFVDVYISLLSAT CSPKPQGS ¹ AVFQHD*VSPGI*NG SERCCSRDRHRQFLW
10907	41275	A	10969	37	332	AEGIRTIQGTENIFCKVWGRQ VLSQNTNTLEGQSN ² DHGCQLR KRTFISTFTA ³ HYSRFFLQRF/VFP YTGF ⁴ EKCQSTAW*KPRYLLSHS VKGKRN ⁵ LHPA
10908	41276	A	10970	137	283	
10909	41277	B	10971	1	624	

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10910	41278	A	10972	3	618	KTQDPAKAPNTDPDILEIEFKKG VPVKVTNVKDGTTHTQSLELF MYLNEVA\AQHGVGRIDLGDN R\FIGMKGRGIYYTPTGTILYHA HLHIEAFTMDREVRTIIQGLGLK FAELVYTGFWHSPECELCRHCI AKSQERVEGKVQVSVLKGQVY ILGRESPLSLYNEELVSMNVQG DYEPTDATGFININSLRLKEYHR LQSKVTAK
10911	41279	B	10973	1	1102	
10912	41280	A	10974	748	1396	LYLQRPFFQIRSSLQVLGHRQIF PQSPRCLHLAPPPLMRHSHRSPT WY*FSPRRTQQSRPVSAQPLGS CGGIQAPPPVTQPSQLSPRGS R*LGSDGAGTQPRHVQNPCPLT CVHM*SPPPPCLNLQARCPQSL RAKVVPAVEQRARVGHVESPG SHCWLEREPEVGSQPQQQRPL PAGAAD*CLGAFWQTHLDLGD SLISCSHDLQGWQLSQA
10913	41281	A	10975	1	846	
10914	41282	A	10976	2	851	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTFVFAAKLWS FFIYLLRRQIRTVIQYQTVRYDI LPLSPVSRNRLAQVKRKILVLD LDETLIHS HDGVLRPTVRPGT PPDFILKVVIDKHPVRFF\VKR PHVDFLEVVSQWYELVVFTAS MEIYG\SAVAD\KLDNSRSILKR RYYRQHCTLELG\SYIKD/LSLV VHSDLS\GIVIL\DN PGA\YRSH PGYGGR\DNAIPIKSWSVTPS\ DTALLNLLPMLDALRFTADVRS \VLSRNLHQHRLWVTACFPLPP
10915	41283	A	10977	25	153	
10916	41284	A	10978	1	741	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGTPR KGLGE/PAVVPMSPAVGT/PALT QCHGPHAEDDLEEPILTTDPVA RDCPLDLLMDGKTGAIISSLLHS NCLPAPFCQCSHAVKWQLKTV HSCCPLGEVQPQRRCVIATAKE KGIGVKHHCNIHSDNVNSIITAT VAAHQQQQLPQNGNNSGIKNN QNSSENTVTNNSKNISNHIICRN SSKNSKSSSSSSNNNNKSSNTI NSNNKAR

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10917	41285	A	10979	1	669	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGTPR KGLGE/PAVVPMSPAVGT/PALT QCHGPHDEDDLEEPILTTDPVA RDLTMPTAASQHLQKQCLEHH HYFHSYNINSDITVSRNNISSIIT TPVHHCNHSDNVNSIITATVAA HQQQQLPQNGNNSGIKNNQNS SENTVTNNSKNISNHIIICRNSSK NSKSSSSSSNNKNSSNTINSN NKAR
10918	41286	A	10980	3	980	IESPGFPFPGLRQRPVPHRGEFCL RCTSSEALPCFYSWTVTFSPWT VAAAQGGQPRPGPASRTLLLATQ SEIAAAELGPGSWGPGSSCPSE QSSHGPPASS*AAPLQTGRRLRS RAS*RSGAPSVAAALPAPLSRPQE RHPSVSASRSGHPPGPCSPPPP AARPVQSPCRAPPGSAAGRAR APHA*AAPGSWLSSAGAAARR WPFQTAKGSGS*DRPGRPGPDA PAAPPGWHRAPPGSSSSGAGTG RHPQPFGRPRRRTPAPYAAPCA FVATLVFS*LLIFGGAFSFPALS HCPTSA*LKRLLEPAPIAFPFG LHPGTLLSRASE
10919	41287	A	10981	1	5229	
10920	41288	A	10982	1	7044	
10921	41289	A	10983	1	3228	
10922	41290	A	10984	10	209	TLSGGEPQRLEAERRARLQDEE RRRQQLE*MRKREAEDRARQ EEERRRQEEERTKRDAEEKVM
10923	41291	A	10985	293	363	
10924	41292	A	10986	3	434	
10925	41293	A	10987	3	1536	
10926	41294	A	10988	315	993	VPVAPIFHFSHFSPAPTFTQSR QDSMQCILRQHCHLILISRSSL VPAGLRGAMAFALAIRDTASY ARQMMFTTTLLICPELLALLS LSHSRSLLLHGYHGPS*YALFFS LSFSLVTWVGAKPGRYQSLIFV VVVGCTFQNGEPLREEDSDFIL TEGDLTLTYGDSTVTANGSSSS HTASTSLEGSRRTKSSSEEVLER DLGMGDQKVSSRGTRLVFPLE
10927	41295	A	10989	3	320	

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10928	41296	A	10990	3	582	GPPTPRRPRPLPSSLPSRRSRDPP RIPLCA*FPQTRKQIARSEPD*T WASQSSTSIPRIWRFVHA*KFST APLTATPPPGKMCAGCRETVK TT*PPLRGGPAPFLLPSRAVARG TRPGFRSALSFRPPGNRSRGVN LIKLGRLSPPPYPGFGGSYTPE NSQPLPSLLHPLEKCALRDAE RQLKPPDHHLMAVWLPDVWN GEGEPSHTRHSLRASSSNYV LRAPEGNLLARRLPRETAINLQ PKACYKTLSPESFSHFYNQFC PRRHQWLPAQPPGHFFLG
10929	41297	A	10991	3	338	NSPSRPRSSQRGVAGRRSEAGP VAVP*GGPKKGRGC*GNRWG QRPRWMLRASGSGESTTPACSA ENRHAS*RKKRKRPGQVSWE TEETRSQHSQPRGHAEP LHRP QRR
10930	41298	A	10992	3	226	TILSS*SSSSSSSPSPSPSPSPSP SPSPSPSPSPSPSPSSFFLRWS PALFPRSLSFLPGTGTPFSCP
10931	41299	A	10993	24	489	KEYLVRTK*QKKGGENPLVKIT FRPPGLRTYPSAPWSARSTYG RAAAVWRPHSPSAPRRGTHPW PAGHRGQRASGEGVGTHTHAH MSSVCACSTHTCWSRNCKDPR EDRGRGLTVLLEAAVCNSCLLL VLKTPRNPQLPILYTDSDTKSST GNP
10932	41300	A	10994	1	1491	
10933	41301	A	10995	140	308	RNVIKLKGWSRPSKQQDNPTLR PGPPSPAGGFQQLMRMRRLA GGGKSWGIAHFYKPLQRERRA GAECGLARQVRAEVTWKWIGVN RRPRKRKRMEKEEVFEKLLPD QLG L L L E H L L E Q K T L S P R T L Q S LQRTYHLQDQDAEVRHRWCEL IVKHKFTKAYKSVERFLQEDQA MGVYLYGELMVSEDARQQQL ARRCFERTKEQMDRSSAQVVA EMLF*RGQDRFSLKKCDKVKG MVKTQQATGQPDSPRPALTG RRVPATADADEKAFGGWRKIL GYRTFL

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10934	41302	A	10996	219	688	RRMHAYVSLDPLERPPFFFFFLF FFFFFLLRRSFALVAQAGVHW RDLGSPQPPPPRFK*FSCSLPSS WNYRHAPPRPANFVFLVETGL QLPTSGDLPASASQSVGITGVS HCAWPGNWLLKETRCGSSVGR QITGPITPDWVDPGIPDRYLQ
10935	41303	A	10997	3	298	FFFFFLRQSFALVAQAGVQWRD LCSPQPPPPRFK*FSCSLPSSW NYRHGPPHPANF*FLVEMEFH HVGQACKLLPSGDPPALASQS AGITGVSHRA
10936	41304	A	10998	2	438	APSVRSGNERDLARDEEAQETQ VRGCHASGGICTPAATAGASPP AWAGRRGTGQRLRSQPRQTGR QPPRVQPLAPPPGAPAPLPNPQ NCRKTRSHPRFWAGTLAPGPC PGLWCLPGLVQVDVLAAGRCD HLSCLPPLCPQAFLL
10937	41305	A	10999	2856	3044	GAATGEGGCCRLPGHPALAST A*AIPCRGPRVQETSPPPVLGW DPGSRAMSRALVFAWVGAG
10938	41306	A	11000	1	908	GLGDPGVPLRSGGLGPPADLK GDQAVAE*LHEASGVTEHHPS AQPGPGGEEAEPALHIV*EPEG GSPGHPGGGPGHPG*SEGPAGG KPGPAGGGSAGQCRRSSEPSGT *SGRSPR*GPHGHPDCRTHPAR EGAQVHSRSLPGGAPVRRGCS QGPEQRLQQEDFLRVQQLSAA GPLRPQLYPQVWLCPEHQLE QYPRSYFSERIDVFKPCGVQQG CPVLDRASSKISPEDAAGSVVR LRSLWAASGLQQGASGLATFL QLLTCGVLWPDEELVHLLLE VVASAAALRCPDPVPMEPTCG

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10939	41307	A	11001	218	990	VLQLLKAMRLELFLPPGGFMV LLASGVKLQTFATQVPSWLHP VDPSPGLELEVELPASPVQCAHTP QPLGGRWDWVPWSRGQRSSG RLGPHGSPWRRWEAQAWQPA GPKPCPVGS*GPVRNRGQRRW AGTAGDPVHPPQPLAQVLSPSL PGADRAGQLLRVQGPPSPCPPG TPAGPQGRCAAPVPTGVSPSTP PCKLREQAPALASPERGSHSAA VG*RAPQVLPKW*PELMFRWV RSFLLVGSWLTSGVKLHPFVV SVTALKGDASGVIPSSRWVHGL AGLRCEAADLRDSGAQLASPS GSLTRTGGGAACQSRVCPHSS AFGWSMGLGAMEQGAALIGEA RASREPMEEVGGSGMAACRSQ ALPRGQLRPSEKSRAAPVGWH CWGPSTPSAATGPGAKPLIARG RQGRPAAQSAGPAKPMPTRNSS WPARAVRSPGSHWRLSLHTSL QAERAGSGLGQPRKGLPQCSSG LKGSSSAKVVAQAEAAQRAS EGCEDYLARCHLSIRKMRRRN
10940	41308	A	11002	3	644	EPPGPTGPPSPQSPWHPGLPGR WSSTHVVFTHLHLAGPGWSCD HRWMGKQLPVSLASGVQGV RFRSQDMYQSSRNKFPSGAAH VPQEWAVPWKNQGNTHQSSRP SESGCCAQAEGSNQCHQRQEA AGPSRLSLPDGRRLETPRHPN GPWYWNNSPQRLN*WRRGDPS WPEPQGKPHTGGARVPACQRR EICLSPFRGPRRRQKENIYEYL
10941	41309	A	11003	202	438	FHGHAPAGEMRGWPRVTKRSP AQSGKT\HFPPGSPGPPDTSTESI FRRAWKAPGFPGRGRTADPET ARCGAWDEIVEPV
10942	41310	A	11004	520	1094	GPLSQCPPLRLLPPLGVYSKGR APHADTHSPGHRRTAHAAQPA AAAATATR*QRRRLPPRRTPF RRPAARPDRRVP AHSSAVLPRP GKPGAFOALRKMDSDVDSGGP GEPGGKLG FARLRRAPPDRLPG CPSSHSTFQTQSLSFMAHNVDEP LESATSLGLLRWSWFCFTWQK QTVYWSTGRIRHSGEK
10943	41311	A	11005	1	138	SISLMNIDVKILNKILANQIQQHI RKLIHHD*VGFIPCLRILVIYI

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10944	41312	A	11006	65	297	NQRLPQPFLPTTPPPATRAT*D EEKSPYPGPGSDKKCPTLQLPSP PTPSAGGFPLGESGSPGGLVK AQIMEGISM
10945	41313	B	11007	322	6900	
10946	41314	A	11008	3	215	
10947	41315	A	11009	1	234	
10948	41316	A	11010	149	300	
10949	41317	B	11011	28	162	
10950	41318	A	11012	700	861	RRKCIPGRRNSKHKGPDGAGRP *VCREQQEGQCAWTGYPGAQG PDPYCGKGPYS
10951	41319	A	11013	291	744	LKRTKCDQLLKTSFLDLGRGPI LKWLCTSKWGHQQIIRA*GTE YKTTSFFFFFETASRLCHPGWE CSGAISAHS*FLLPGSCHSPASA S*VAVTTDTREHAQLIFF*HFSR DGFHVVARWLDLLTCDLPLSL QVLGYRNYIIIVRQLPSR
10952	41320	A	11014	139	414	SFKTAPPGFFFSF*LHLILMLKFT PGAIKLVFLAQFLGISFFFLGKP PSSWFRNESC SVFRKESSQSWQ GRAHVWG*SDPWSSGRSRAH L
10953	41321	A	11015	5	565	VHTTEATCTTTGAKPCPWPSKL ATRQDHSVLSSTSNPRGPTPHKS GSPETAGALSSGDAGSRGEGPR TVSSERSSPGKGGSTLLGTTA*G PGPAHFASAVLGPSSKSLQAAS *EVDSFPSSLLKTA VSVLASTVR LSVSFMPFFITVSVTSSVISASSS PSELASMATLPGASG*AARAVN FELDEE
10954	41322	A	11016	188	515	SQTVSIVGELPIPRKRCEIGIWD AQKR/CPRLTGPWATISVPTISK KATGN/PQHPNHPRARYQINAE *WKVHF*TNTDRPSHECPCTLV VHRTLQDLRHKSSTSGGKTHG
10955	41323	A	11017	80	397	SVQRSVDHL*DHP*TSVDWELY LDGSSFANPCKVTLKTTTSPAS VTPEADWSMHSQSMRNSLRDS FSLKFGLIIHDFLTPTFNPLENP CGFLTRFCCVPNQISS
10956	41324	A	11018	104	392	PSQFHLKLLHMLALLYPVGTC QVKDSSLLQKSTSVPPDSPQTG H\SKLGPFNPGRFR*RPQCQPGV LPPDVELSCHSWSNVLWTTAA KTPIFCSY

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10957	41325	A	11019	125	1404	NLALGMAMWNRPCQRLPQQP LVAEPTAEGEPHLPTGRELTEA NRFAYAALCGISLSQLFPEPEHS SFCTEFMAGLVKWLELSEAVLP TMTAFASGLGGEGTDVSVQTL LKDPILKDDPTVITQDLLSFSLK DGHYDARARVLVCHMTSLLQV PLEELDVLEEMFLESKEIKEEEE SEMAEASRKKKENRRKWKRYL LIGLATVGGGTVIGVTGGLAAP LVAAGAATIIGSAGAAALGSAA GIAIMTSLFGAAGAGLTGYKM KKRVGAIEEFTFLPLTEGRQLHI TIAVTGWLASGKYRTFSAPWA ALAHSREQYCLAWKAYLMEL GNALETILSGLANMVAQEALK YTVLSGIVAALTWPASLLSVAN VIDNPWGVCLHRSAEVGKHLA HILLSRQQGRRPVTLIGFSLGAR VIYFCLQEMAQEK
10958	41326	A	11020	3	1693	CQRLPQQPLVAEPTAEGEPHLPT GRELTEANRFAYAALCGISLS QLFPEPEHR*VLLSCPLGTPVGL HSDAHYGQRLAVAVHVEGTLP FTSSTFAAASVFQKARPWQHGP EQMAFSGKPFLVAAVTSAGGS GAPSVGCTELISTSVLGYHTAL EMAGLVQWLELSEAVLPTMTA FASGLGGEGADVQILLKDPI LKDDPTVITQVHPTPGVKDGL IF*ARVLVCHMTSLLQVPLEEL DVLEEMFLESKEIKEEESE*ES PATKTEGGGEDKDRKHPLMGD KMTESKTDLWIYEMGNAGVLL FRRYLWLQPKKENRRKWKR YLLIGLATVGGGTVIGESS*RCA PLVAAGAATIIGSAGAAALGSA AGIAIMTSLFGAAGAGLTGKVQ KE*VGAIEEFTFLPLTEGRQLHI TIAVTGWLASGKYREDQEDQA ALAHSREQYCLAWKAYLMEL GNALETILSGLANMVAQEALK YTVLSGKCPHLPWPASLLSVAN VIDNPWGVCLHRSAEVGKHLA HILLSRQQVPGNGCVIGFSLGA RVIYFCLQEMAQEKGEHGLL
10959	41327	A	11021	208	324	VSLLKAADNWLVNSYPFCNSV SSEFFFR*IRDFFLFWIH
10960	41328	A	11022	1265	1459	
10961	41329	C	11023	188	730	

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10962	41330	A	11024	64	228	QHLLRRWGRSGLLLNDR*VSN EIKMEINKFIELNNSDTIYQTL WDTANTVLKFM
10963	41331	A	11025	1	648	
10964	41332	A	11026	26	613	VGAGGRGWRFAAAVRRAAGG GLRPGPAPGPRAGGGGPRGAH LALLRRAGALRAGKEYGKADA RWVYFDPTIVSVEILAVLDVS LALFLIYAIVKEKYRHFLLQITL CVCELYGCWMTFLPEWAHPEA PNLQQPATGWLYWLGFTLFFF* RCVGFLIPRNWLLWAVHGPRTS RKWHQKGNQFQWKEVFSGTF
10965	41333	A	11027	2	252	ARGRAGVAGGPR*AAELPGLP RDPFPASRPLRRSDCLGGLIRHK PPDPGAGARVEGEALPSWSPGG ALEEGVT*PGTRGPPWE
10966	41334	A	11028	3	637	RDQVRRGQGGEPARIQCPRRRL GEGPGAPNRLGPPARDPRCSPW PRADSPRDPNRLSSPQLPRPAYL GPACFP*PSWGVSRSLPSLAPW RPHRLPDSQRFPNGGSRSRATS GSWTWKSKECREWRPSGSRGT RGSSSGAGSSGSSAGVGRRAG HGRWHLR*GPLFPAAPASATCP LWHGWKGASLDLGLQPWATF YPRVTGARGGRTLGP
10967	41335	A	11029	158	462	
10968	41336	A	11030	339	866	QICHSPPGNKAHSHLLPYQTPV PSSQYPPSPSRTLQLPFPTWNP CQWPSRGSCGPSAVGTGPPFPT GIPSV*APSARG*HHSSACGCH PGCAGPQPARSHPGAPASGCH TVSGCCHALLQSLAPGRPSPA GTWPHPPPGLPSAPGTEPCTA FEGFQPPCWLSQHPLSPCL
10969	41337	A	11031	621	944	TPQGGTAPSGGRHPWASASPHR LPPL*CSARPGCH/SSRMRSPT RPSGPLAQDCHPPRPQTPHAGS HHTSAPQAPAGTF**RQRVAPG SSCWHLPPQSWSCSAWLGGC
10970	41338	A	11032	3	257	AGRASKGG*NSKAVQGSVPG AEGSPPEGGCGQGAGLGLPGA RQDCSRA*QHPPGPGGGQEVY LDISLAPGSTGIQGLEAKHL
10971	41339	A	11033	94	227	SSYVFKSILTAFGMTWMRLETII LSEVTQG*KTKHQMFSLICGS

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10972	41340	A	11034	404	894	FVYFFRGELCKISSTLGFKGTGQ GLQPSKVS**VPSRPAGNGRPA YPETSQPPPGPSGG*HWLAGW Q*GGPEPGWTCIWP*GS*GTEIG SPSQPGPEPAGVPSPRDAGSAA TGCHTGLAGVVWPPRLCHRRV TDGRKSMKRCLRSYCTSSVRA SGGGAGRIT
10973	41341	A	11035	1	408	
10974	41342	A	11036	68	204	SFLWHPLGLHFHTHH***NYKS SSK*MVRIRVTFSKFIFVRNNYC
10975	41343	A	11037	5	188	PQCRLHLRQGLALSPKLECSSAI TAHCSLELPGSSNPSPASRF*GS RSVAQAGVQQCYHSSLQPRTP GVKQSSLSFPFLRLQPKVSSATL PVRLQE
10976	41344	A	11038	1	263	
10977	41345	A	11039	2	283	
10978	41346	A	11040	1	1965	MAAENEASQESALGAYSPVDY MSITSFPRPPEDEPAPAAPLRGR KDEDAFLGDPDTGEAR*PRPCP ALGSPRSSFFCVKHPGSPLRETR KDPFSAAAAECSCRQDGLTVIV TACLTATGVTVALVMQIYFG DPQVRGTNGEGEETGEWGVG* CLRNCCKGSSVDAAVAAALCL GIVAPHSSGLGG*GAVEVGVPQ AYFLPPGL*ASCAARALREETL QRSWETKVGTLVRRESSGESLF IALLLTQALIC*VLAQDGFNVT HDLGQWGLGIWERHEVDGEG* NL*DLEPPPLPGSLLHRPDLAEV LDVLGTSGPAAFYAGGNLTLE MVAEVSARVVRVGACPKVPIA GHPRPHFFGVYRGDLSPGSQGP PSGEASQSMATSFWPFNLTSLV SREQALHWVAEVRRLTRLFPFGF KDIRSGEIGYCHRADDMLRWV LGRTWGLQRQRWVWGKGQEK SSYELDGAPTAAQVLIMGPDDF IVAMVRYASSDSEPGTRDPLNQ EGVGAG*RFSWPNRTANHSAPS LVGFASLLSWG*GL*VGGAM AWLPLCGTYLALGANGAARGL SGLTQVRFTPWLAFSREPSCG LDCRCLS*QSNLLQVDSECRAE TSWGGHRDR*RKDSSQGCPWV HGSRRTNNFIIAVKDPSPDAA

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10979	41347	A	11041	1	363	SSMTTVHATTATQKTVGETLA* LLQNIIPVSTSVAEAMGKVIPEP DKRLTGMAFCVPTHNMLVVAL ICHLQKAAKYDGMRRRCFNATT GITFNGHFVRLLSWDEFGSSNR VVDLMVHTASKE
10980	41348	A	11042	162	303	CLLLKSCSQEAAAALALPALGL VFDVFL*IYFVRTKYLRVGFRN FF
10981	41349	C	11043	56	118	
10982	41350	C	11044	345	410	
10983	41351	C	11045	7	439	
10984	41352	A	11046	2	80	
10985	41353	B	11047	205	5326	
10986	41354	A	11048	1	813	
10987	41355	A	11049	1	1454	
10988	41356	A	11050	2	1624	
10989	41357	A	11051	1	1185	
10990	41358	A	11052	1	2149	MKEKMLRAAREKGRVTHKGK PIRLTADLSAETPQARREWGPFI NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTRPVLK ELLKEALNMERNWNWYQPLQKH AKNMPNSIILIPKPGRDTTKKEN FRPISLMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIPGMQGWFI NIHKSINVIQHINRTIDKNHMIIS IDAEKAFDKIQQLFMLKTLNKL GIDGTYLKIRIKYLGITLTREVK DLFKENYKPLLNEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAISNKLPMFTFFTELEKTTL NFIWNQKRARIAKSILSQNKKA GGITLPDFKQYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWGKDSLF NKWCWENWLAVCRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEEILGITIQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLKSF CTAKETTIRVNRQPTKWEKIFA TYSSDKGLIFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AAKKYMKKCSPLAIREMQIKT TMRYHLTPVRMAIIKSGNNR QTESQIMSELPITIASKRIKYLGI QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVKM AILPKPTNVHVTNLAAQDTTAL EAAQISLEGHPQEKEISVTAMPL
10991	41359	A	11053	1	2031	

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10992	41360	A	11054	1	1188	
10993	41361	C	11055	1	353	
10994	41362	B	11056	151	1608	
10995	41363	A	11057	1	373	
10996	41364	B	11058	1	488	
10997	41365	A	11059	1	1257	
10998	41366	A	11060	2	3527	
10999	41367	A	11061	1	2373	
11000	41368	A	11062	1	1755	
11001	41369	A	11063	1	1599	
11002	41370	B	11064	220	1286	
11003	41371	A	11065	1	1826	
11004	41372	A	11066	1	1645	MDKFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINILKMAILPKNW KKTTLKFIWNHHRACIAKSILS QRNKAGGITLPDFELYKATVT KTAWYWYQNRDIDQWNRTEP SEITPHIYNHMIFDKPDKNKKW GNDSLFDKWCWENWLAICRKL KLDPFLTPYTKINSR WIKDLNV RPKTIKTEESLGNTIQDIGIGK DFMSKTSKAMTTKAKIDKWDL IKLKSFCTAKETTIRVNRQPT WENIFAIYSSDKGLISRIYKELK QIYKKKTNNPIKKWAKDMNRH FSKEDIYAAKKHMKCSSLAI REMQIKTTMRYHLTPVRMAHK KSGNNRTRENYFKIHMESKKSQ NSQGNRKEKEQSWRHATRLQ TIVQGYTVAKTACYWYKNRPT DQSNRTENQEIRLHTYNHLIFD KPKDSNGETTPYSINGARITG
11005	41373	A	11067	1961	2588	KLAQDRDALSPLLFNIVLEVL ARAIQEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSQYKINVSQAF YTNNRQTESQTMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIK\EDTNKWK NIPCSWV GRINIVKMA\LPKVN\YRFNAIP IKLPMTVFTELEKNYFKVHMG T KKEPASPSQS
11006	41374	A	11068	2	278	
11007	41375	A	11069	3	274	

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11008	41376	A	11070	261	1382	LELSFPPAGQRGVLSGDPQNLCTCPSGSWHVPRCWAVERQRPNLPRVTQTQLVAEDGSRVYVVGTAHFSDDSKRDVVKVSAATRHIPDTGWCKLLPGSRDGLVRFPTRYVSMMLKMDSTLLREAQELSLEKLQQA VRQVR SRGQSGSGSGSGSKPPHITEQLGMAPGGEFREAFKEVGTG*GRGWPGCGSQAVTFKRAIAALSFWQKVRLAWGLCFLSDPIR*GCP RDPGRPAGWSVGMAEMIGEF PDLHRTIVSERD VYLTYMLRQAARRLELPRASDGDGRPQAWDPL*G*GPRGHVPGIEKNWSTD LNIQEIMT*VPAPPC KPHPTSPQVA AFFGLGYSLYWMGRRTASLVLSLPAAQYCLQR
11009	41377	A	11071	3	506	KDCQF*VGPEQKKALYKVHAPIQAALQLGPYE*ADQKRTCVRFG RHTCETA AFTFWKSLGLDKVTKPRSSSSQLLALAIRSSPGSTTDACLLDSFSGKSRISWFGS
11010	41378	A	11072	2	374	IRRESTHLQQALGTTPQDR LTC TGHSAQPPAC SASPLPPGPP*SSAWPLPPSTRLARQKQAAATAQP*PLTTQT LGPWSSASTWTSAHKQPGAAAQEW TSTAGSRQLLAGASGSSPSSCSVWTN
11011	41379	A	11073	3	553	
11012	41380	A	11074	239	547	GHHFQMN VVCRCSVWMLSLEPHVGGQIHSC**ERAKLCGKEFNRMHNLMGHMHLSDSKPFKCLYCPSKFTLKGNLTRHMKVKHGVMERGLHSQVSRPSLEA
11013	41381	A	11075	1	267	MAISMVTTRSTTIRITTAAGCHYENDMAHNHSDRGGLPLKVVLTPFLT PPGKGGGAAGALERRTEEGDRDAGGAAQEGGLTPTSVPPSS*HTLWLRTVDPEASTSPSTRHPYPNRRGGGGRAL EPHPRR*V*AGCHYENDMAHNHSDRGGLPLKVVLTPFLT PPGKGGGAAGALERRTEEGDRDAGGAAQEGGLTPTSVPPSS
11014	41382	A	11076	1	1707	
11015	41383	A	11077	1	1407	

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11016	41384	A	11078	1	1275	MVKGSIQQEELTILKIYAPNTG APRFIKQVLSLQRLDSHTIM TGFNTPLSTSDRSTRQKVNKD IQELNSALHQADLIDIYRTLHPK STEYTFFSAPHRTYSIIDLIGGSK ALLSKCKRIETTNC LSDHSAIK LELRIKKLTQNRSTTWQLNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTIQKISESRSWFF EKINKIDRLLARLIKKKREKNQI DAIKNDQGDITTLERVVLEED TLHLLNYTPRKVLYRWNRQSS TSVIETNKTSVELSLPFDEDEYIIE IKPFSDDGGDSSSEQIRIPKIS/NK KTK*PNPWRQK*G**LAVADA YARGSGASTSNACTLSAISTI
11017	41385	A	11079	1	426	MLHTKQHLSMGTEMDDKLH FSDCSAASLVSLSTTTGGHVL NMSADIARYLPVLYRWNRQSS TSVIETNKTSVELSLPFDEDEYIIE IKPFSDDGGDSSSEQIRIPKISNA *ARGSGASTPNACALSAISRIMI SLTARSSL
11018	41386	A	11080	3	620	DRTLAEAPHTAPARSGHRGWC PRPHRRRRNRGRQLLAPGRGA DPGAGEAATVQWRLLRGQPAA ALHVQQGAGDAANAGLQRGA HADSHDRAVPAGHAPGPVAAA GRGHDGQVPAALG*AGGPVGL RRPEPPLQTRGKGR LAPATQQV GQARRLPTGRGQLLLRRPQPAA HHGPRPRLGGRGRGGSHKSPPH GIWPRLAGWRATLE
11019	41387	A	11081	335	640	PLGVLSLWKSLSVHSDAGAGE L*EVITGSTWPNP*QCCLVPNV DDEEEGEEQDDDDDEEEGL*D IDEEGDEDEGEEDDDDDVEEG EEDEGEDDWKFAKE
11020	41388	A	11082	2	204	

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11021	41389	A	11083	3	1471	SKDTKRDVDSKSPGMPLFEAE GVLSRTQIFPTTIKVIDPEFLEEP PALAFLYKDLYEAVGEKKKE EETASEGDSVNSEASFPSRNSDT DDGTGIYFEKYILKDDILHDTSL TQKDQGGGLEEKRVGKDDSYQ PIAAEGEIWKGFGTICREKSLEE PKG VYGEGRISRPCGDRW*RSD AESSHHRGRQSGYPENKLCGF LLKTPHHVLERADEAGSHGNE VGNASPEVNLNVPVQVSFPEEE FASGATHVQETSLEPKILVPPE PSEERLRNSPVQDEYEFTESLH NEVVPQDILSEELSSESTPEDVL SQGKESFEHISENEFAEAEQST PAEQKELGSRKEEDQLSSEVV TEKAQKELKKSQIDTYCYTCKC PISATDKVFGTHKDHEVSTLDT AISAVKTVIRDSKTKSGEGAY GREMKSPHKFPEGKIHNDKEH DRIVQEFLAETGPKVTRFNEQC RFRPRIYVYENNQTQIMVEEPQ
11022	41390	B	11084	148	235	
11023	41391	A	11085	30	420	VSGTRGPSCLGTSWASGAWR PPLGGLPPSAGANGPGRVRSAA GCSLVAGCKVLGSWVSGFAGR SHVACAGSSGESVRARCPGTA* AAGGPGPQAFQAAY*QGSRMH RAPPRPNRQVQTWEEGAGTG
11024	41392	A	11086	2	73	ERLRMPGVAKGRPR*GNPRRG RG
11025	41393	B	11087	1	1412	
11026	41394	A	11088	39	427	PPYWGHHSSAAASAALKGKD GGSSRSLVPPAQ*HSHSPSKTHC VHTPSRSCAQGLTHTLTQSPPSL KIAQSPSFDARAHARLRIWQIPS APRVPPLSASLSPTRTAGSVRFE SQSTKTSRSHRFLPRT
11027	41395	B	11089	1	813	
11028	41396	A	11090	3	365	RTPSSKGCGRPPRGMGAQGSA GCGRRRSRPRSQRARRWSHPC* PPSSPPWPRPARSPPGCSHRAAL SSPSPSSFLARHSARPLALAL GPPWCSSGCASSAPFDLQHPE QSQNQDARG
11029	41397	C	11091	295	412	
11030	41398	A	11092	21	164	GAVTENDFYDLVRTIGGDLVE KVDLIDKFVHPK*VKSFLILPLTI SV

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11031	41399	A	11093	1	1373	GISTMVGSALRRGAHAYVYLV SKASHISRGHQHQAWGSRPPAA ECATQRAPGSVVELLGKSY PQD DHSNLTRKVLTRVGRNLHNQQ HHPLWLIKERVKEHFYKQYVG RFGTPLFSVYDNLSPVTTWQN FDSLLIPADHPSRKKGDNYL N RTHMLRAHTSAHQWDL LHAG LDAFLVVG DVYRRDQIDSQHY PIFHQLEA VRLFSKHELFAGIKD GESLQ LFEQSSRSAHKQETHM EAVKLVEFDLKQTLTRLMAHL FGDELEIRWVDCYFPFTHPSFE MEINFHGE\WLEVLGCGVMEQ QLVNSAGA QDRIGWAFGLGLE RLAMILYDIPDIRLFWCED\ERF LKQFCVSNINQKV KFQPLSKYP AVINDISFWLPSENYAE\NDF*Y LVRTIGSDLVERVDLIDKFVLPK THKTSHSYRIMYR\HMEPTLSQ\ REVRHI/HIQALQEAAVQLLGV
11032	41400	A	11094	8	119	
11033	41401	A	11095	2	475	QAGPSGGIPEGIAITGDDSSMHA IAPEDLPVGQDVEAEDSDTGDL DPVLT VFRRGVEREFFSNWYKT AWSFSKLAQKGLSS*PSSLSSS SSSSDKAVTAGTELFASSLSSSS DPRRSISSSSLLFVAPLPVVSSTL AGPYLPTAFTTPGRLAFSFS
11034	41402	B	11096	677	696	
11035	41403	A	11097	1	357	STMIEAHVDVRTTDGYFFLLFC VGFTKKHNNLIPKTSYA*HQQY ICLPHQDDRVT HQNPSPDGSIA RVLSIYYLYISRREMNSIISQGL QKVHIHIVPGSLMNQELDDL I TVFFKA
11036	41404	B	11098	1	541	
11037	41405	A	11099	14	671	PAPWRLGKNKRLTKGGKKGA\ KKKG VNPFSKKEWY\DV KAPA MFNIRNIGKTLVTRTQGT KIAS DGLK/GVRVFEVSLADLQND E V AFRK\FKLIT\EDVQGKNCLT N\F HGMDLY/TRDKMCSMVKK\WQ TMIEAHVDVKTTDGYLLRLFC VGFTKKRNNQIRKTSYA\QHQQ \VRQIREGRWM\EIMDPRRWQD QMDLEEVGH ELIAGSIWKRRH KGLPIYLSSP

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11038	41406	A	11100	1	217	RQGLTLSFRLECPGVISAHCSLN LPGSSKPPASAPQVAGTTGVYH HAS*FFIFFVEMGFHHVAQPGL CNFVF
11039	41407	A	11101	2	442	LDVQIQEAQRTPGKFIKRYSP RHFVIRLSKLKTKERILRAVRQ KHQVTYKGKPIRLAADFSTETL QARRDRGPIFSLLKQNNYQPRI LYPEKLSIIYEGKIQSFSDKQML REFAIRKPPLQELLKGSNLNLTN PGNT*KQNFFKA
11040	41408	A	11102	2	545	EPRPGEKTAHVYGPDCLCGSCV QLSFSGAFFSTRWVSYEQANCK GEQVFVEKGEYAHWDWWTSS QRT/DLSSLRPIKVDSQEHKILY ENPNFTGKKMEIIDDD\VP SFHA \HGYQEKVSSVWLRSGTWVGY *YPGYRGLQYLLEKGDYKDSS DFGARHPQVQSVRCIHD MQGH QCGAFHPSK
11041	41409	A	11103	2	389	EIIDDDVPSFAHGYQEKVSSV WVRSGM*VHCQPWLTLPOELR LWGPRSGETLALTSAPVSKTCD FGARHPQVQSVRCIHD MQGHQ CGAFHPLGTQEEEEAGQKEQM EQVPFWLARGDICE LSGK KSV
11042	41410	A	11104	1	446	MEEEELEFVEELEAVLQLTPEV QLAIEQVFPSQDPLDRADFN AV EYINTLFPTEQLPMPSAHGGVSS CGNAGGPVSFATRENARCGIW GSGGVCDGVFGA/GAAGWGGV *GGGALGWMLSGRRIVLRS AIF TSPVSRAGSPERG WSCDC
11043	41411	A	11105	1	210	SSDGRHLAFDQGSPG*VLGHVG KQRAVDVQPSVAVRVRQPLLL LSTIMGSGLLGWEQGIDILNSIEI CSI
11044	41412	A	11106	2	287	AAESPGRSTRTDGAGLTRSLPR GSR CAGAWVAAGGLSWARGG GRQEAGWRNDG*GGTGARGG AGSRAAAHARGAAGHRASVSK PGPSRSSRFQCC
11045	41413	A	11107	150	389	GEEIWLGAARPGKPTSPRIPL* PSLFPWRPHKFPERSVFAGSQP ASQSPPLRPPPPSHPEG SCLGSR LPPPGYLLPLR
11046	41414	C	11108	43	213	
11047	41415	A	11109	3	246	SSFPAPAREGALAPCRCLAGISV TLQGNP*GRCHHHHHHHHHHH HRCYDSQESGKLPRPGPKAELE GPPAWLLVGP GAHP

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11048	41416	A	11113	1	726	
11049	41417	A	11114	2	251	LSCGRSLHQGSVTSCKTINALT LTVDTWRGCAW*GCACTFHCR SATNMIRAYVYFSTISVLSLQEI RLSLRAILADLRSLICF
11050	41418	A	11115	1	1041	
11051	41419	A	11116	1	398	MGPNSTLENLLKGATSVFYNR DQEEAQKKERKLRGRTKALAA ALQ/SWQSPGAPRCIH*LLSVW QARVF*RGMPRQQDEATSTLSI QWQKPVETELSPDMEVTGFRA SLTDERVHLPEVLPQEYTEQRR QGHL
11052	41420	A	11117	5	137	
11053	41421	A	11118	5	272	
11054	41422	A	11119	2	211	WNQPRCPSTVNWIMKIWYIYT MEHYAAIKRNMIMSFAATWME LEAIFLSKMPQ*QKNKYCVFLH ACLES
11055	41423	B	11120	1	1560	
11056	41424	A	11121	1	588	
11057	41425	A	11122	80	574	EPAAQGNVLVDLLC*MKNRNR WLPNELSQVLHVTSQSFSTG MSAKHTAFAMRMSPAQMTDIV VGLSTGQSPFMVLMQQGGHSA MQETRIASLPVTAIPAGMKIPCV TAGSACMVGPSVRVNEWFSAY GMAGMAYSRVSTFVRGLSPRY LTTREAPGCGSSAGH
11058	41426	A	11123	48	131	
11059	41427	A	11124	1	1195	
11060	41428	A	11125	2	1028	
11061	41429	A	11126	1	1008	NMMEQVLDIPSL*VISKDNANV TIDAVCFIQVIDAPRAAYEVSNL ELAIINLTMTNIRTVLGSMELDE MLSQRDSINSRLLRIVDEATNPL ALKIAARMIEDGELDKRIAQRY SGWNSLGQQILKGQMSLADL AKYAQEHHLSPVHHQVAEWM RARNGQLFRLRSNHLTLLVEQN NIFYARGAKIYPDIDHIDRLKKCP SDLFAANARCGICQQSDERCLR YQPRRERGLYRIDITYPGKSYTT TALPSRFVWFVTGKAQSTQAS ALSYIDSLLYHHLDLYGQRLGH LDDGTDSDWNHVPTLNGQCTLV LIHEYVDTRGPEIKTILVISWWN ILVFH

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11062	41430	A	11127	3	333	DIGIGEENRKRWLRTGKCSFLP KEREWMDRLMSWGLVDTRH ANPQTADRFSWFDYRSKGDD NRGLRIDLLASQPLAECV*T GIDYEIRSMEKPSDHAPVWATF RR
11063	41431	A	11128	2	136	YCKLACLQVDSRGSQVFALDV AARHR*QFAMPESDAVAMLKH LS
11064	41432	A	11129	3	431	GVFGRVSEKQRPAAAPAAGERPL PRPRPLPCGAAARTGPFAAQAA *RAAAAPRSERRRHGAEEGH QRCIYRHAADRALGEAARTG YALRPAGEPELAAAARRR*RAP DPGPRVPRHLGLLATRACPPGG AHCSPERGAISW
11065	41433	A	11130	64	2436	RRQGLEGWWAIGLEGLTGKAL AWLFTVPGVRGLQWSPRFFLTR LRTLCKVLGVLFVAGGKKG PTCILQILKGQRQEA*CISGWA ERVWASGQA*WEVWLHWAKS RNWFLFWKQHVHALRVRLDTT LFSLEEGSSFVNQGLTWKVVR RTFSESINHTPRITLGVPSVHSF QLPGLLNFGFVKCVLSPRIFN LTHENFLSSEGPEIGGLGATFN CLNKRLAKYRMNRNVHPKPLV RYLHSRLPPEAAAP*AWCGPR HLSCRQMSSSSQIGNDSFQLQV TPVHLLPLSHTTRKNPEMYDLP LLFFNPQESAILQLFHQDGECLH CSPIVGDWCHLGHSQACPSFSV PSGLFVPSLLCGAAFGRVAVN LKRYSVCVRVCAHVHVCARVR VYACVWVRMTISLTVILIESTN EITYGLPIMVTLMVSTLPPGPCQ AQGHVRPTGPFRSLLEWETEV EMDK*GHDFAHVLVSECISSEA *GMLLFCGGPDRSLFSTFRAVW SLSRLLDSVIAAGKQ*A*RT*SV GYSLLCPDLKGDPSAVSILRTT VHHAFFVVTENRGNEKEFMKG NQLISNNIKFKVKKTA*EERQV RDKRSRLTRLAELRNMCDE HIASEEPAEKEDLLQQMLERR* EPGGAPTARRATQRWGEPLAQ MFPLTFHGLILRSQVLTLLVRG VCYSESQSVSLSEAEISQARPDE
11066	41434	A	11133	3	80	

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11067	41435	A	11134	2	958	LKCELS\DQGLAPAIQTVRLTHE SLTALEIPNALLQTIQDLILDLR VRCVMATLQHTAEEIKRLAEK EDWIVDNEGLTSLPCQFEQCIV CSLQSLKGVLECKPGEASVFQQ PKTQEEVCQLSINITQVFIYCLE QLSTKPDADIDTTHLSGDVSSP DLFGSIHEDFSLTSEQRLIVLS NCCYLERHTFLNIAEHFEKHNF QGIE*ITQVSMASLKELDQRLFE NYIELKADPIVGSLEP*YAGYF DCKDCLPPTGVRNYLKEALVNI IAVHAEVFTISKELVPRVLSKGI EAVSERAQSTDAVCFILQQKWS
11068	41436	A	11135	52	1053	MDEEERVYRACYILCISLLSSPG NPGLHSPMLDLNDTRPSVLG HLSLFLIQKYNHSILFFSPLAWR YKTPHRVAFVEKLTCLVLSQLP YF*IISNMFYFVFLIFKTAEKSNP INHI*TRLCLFLVF*KMIQEVMS SLVKLTRGALLPLSIRDGEAKQ YGGWEVALRSHSAHFCLDVVF RRLTHESLTALEIPNDLLQTIQD LIFRPGSQL*PVSRIFFSAGTFRF KNHLHDFTGFHTCLTGAPRGPV GGCASDDGQAAADTSQWLS*I* VLYL*LFLASMFSLSVDVFSL AP*R*FSKHLFCF*EQRLIVLSN CCYLERHTFLNISHGSP
11069	41437	A	11136	50	426	
11070	41438	A	11137	2	949	QQVWKQNCFKHYSNETDNSTT QLVGVQTLQVVVPSLILCEHCM NFSSPHVWCCMVQAVPGGQQG TIMQVPVSGTQGLQQVSNI*KY *AVYQRRGFKE*IITGQTQQIII QQPQTAVTAGQTQVIPLALSHR SKTDLEESDN*VRYQPVNADGT ILQQGKCTHKLP*DFLGQLFCPL DN*HTTSSGQGTVTVTLPVAGN VVNSGGMVMVRKCIFQLCL*N FLEHAT*CLLKEEPLYVNAKQY HRILKRRQARAKLEAGKIPKE RRVCITLGRI*ERRIAGFYF*NY LFSPKEKDSPHMQVGRHIHIFILL FITLY
11071	41439	B	11138	26	80	

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11072	41440	A	11139	203	797	HRHIARHLFPRTPPTP*LSWQGS *TPRWKGVRAVVTQPRKERRA ESEQFQATKPRSQL*LQPPTPSL VSSCQLKTTAASRPLT*PSKSVY PSAPFHPWLPC/SKPERSVSPES NDSISEELNHFKPIVCSPCTPPK RLPDGRVLSPLIKSTP/PQPKQK PAEADFL*GQSTDPQKVGTDLS GAADQKDPFKSHSYLSGS
11073	41441	A	11140	33	379	EATSNFKQPPSLPFWCLKSRTSL KPRQSKVCSSSFPVI*GKTGNEL ALQIP*FKSSCGPRFPD***PAGR /SAPSLGPPPSQSCAHQ*EHVVQ VCIKHGITNAEPPAEHLKVLVR E
11074	41442	A	11141	248	622	SESSGRFWLCGLGPGTSPLLSL KFPHLLPASRGRSPSPRPRVPR GKATQVVWAWGYRCVDEDP RCLGTPGRTD/PHCGQGLLCPL GKSCSTSQPLSQGDGRGTSWDR SHACSPGGHPHRCIGCM
11075	41443	C	11142	1	1311	
11076	41444	A	11143	452	1286	
11077	41445	A	11144	2	299	GLPLAHGLLGRFGMDRIYEGQ VEMTGD*CDVESIDGQPGAFTC YLDVGLARTITGNKVFGALKG AVDKGCSVPHSTR*FPACDSAE FALGIPYFVQPN
11078	41446	B	11145	49	832	
11079	41447	A	11146	1	1074	
11080	41448	A	11147	1	360	
11081	41449	A	11148	1	1155	
11082	41450	A	11149	75	266	
11083	41451	A	11150	2	222	
11084	41452	A	11151	1	549	
11085	41453	C	11152	453	665	
11086	41454	A	11153	1	1962	
11087	41455	A	11154	1	295	ASTAGVSYYYVAQAGLKLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFM YFAGTWMKLETILSKLSQGQK TKHRMFSLVGGN
11088	41456	A	11155	1	363	
11089	41457	B	11156	1	375	
11090	41458	A	11157	1	197	
11091	41459	C	11158	1	270	
11092	41460	C	11159	1	146	
11093	41461	C	11160	1	268	
11094	41462	C	11161	1	301	
11095	41463	A	11162	1	289	
11096	41464	B	11163	19	240	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11097	41465	A	11164	2	253	
11098	41466	B	11165	1	978	
11099	41467	B	11166	1	316	
11100	41468	A	11167	191	319	
11101	41469	A	11168	608	763	
11102	41470	A	11169	274	437	
11103	41471	A	11170	1	417	
11104	41472	C	11171	1	792	
11105	41473	A	11172	3	449	IYLTKEKLDLYKEKCKTLLKEIT DDTNKWKHIPSSWMGRINIVK MTTLPKAIYKFNAIPFRIPPSFFT ALEDTILKFIWNQKR/CPHSQCK IKQKEQIWRHHTT*FQAIL*GHS HQNS/IGTWMKLENIILSKLLQG QKTKHCMFSLIGGN
11106	41474	A	11173	1	441	
11107	41475	B	11174	1	597	
11108	41476	A	11175	5	265	
11109	41477	A	11176	3	280	SIYPNTCTRMFIVALLTIAKTWN QAICPTMIDWIKKMWHIYSME YYAAIKNDEFMSFVGTWMKLE TIHFSKLSQGQK\TKHRMFSLIGG ELEQ
11110	41478	A	11177	590	747	KAYQPEKAQDQVDSQPNSTRG TWMKLETIILSKLTQE\QK\TKHC IFSLISGS
11111	41479	A	11178	3	274	FYYKDTCTHMFIVALTIAKTW NQPKCPSVIDW/IMKNMWHIYT MEYYAAIKNDEFMSFSGTWMK LETIILSKLTQE\QKTKHCMFSLI SGS
11112	41480	A	11179	1940	2061	
11113	41481	A	11180	493	743	KATRSVNC/WWDHL*RPFWGS PH
11114	41482	B	11181	1	1248	
11115	41483	B	11182	50	8445	
11116	41484	A	11183	40	125	
11117	41485	B	11184	1	1896	
11118	41486	A	11185	1	624	
11119	41487	A	11186	1	357	
11120	41488	A	11187	1	304	
11121	41489	A	11188	681	834	
11122	41490	A	11189	3	2128	
11123	41491	A	11190	175	402	

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11124	41492	A	11191	46	790	NPGAVKMPAYHSSIMDPDTKLI GNM/AHLLPIRSQFKGPAPRET KDT\DIVDEAIFLPSGPNVFFKN YEIKNE\ADRTLIIYITLYISECLK KLQK\CQFPAQGGGKEMFYA GESTNFSHFLGEPGFPTLTAILC PNPANK\QEDEVMRALFTNQ K GKRLGLRLCEKSFSDP\QNG*T PAKWVDLAFVKRQF\MNKSLS GPWTVEGSPGQPTVSRGPAAAF FQQDVTQSFCLYL VKFYRDERR ACLYLKNS
11125	41493	A	11192	1	828	
11126	41494	A	11193	1	525	
11127	41495	A	11194	43	1826	THVRLAGARASPRAPRLRPRKP RPQGLPCLPGLRRARLEGGARG RADEMFLPLPAAGR VVVRRL AVVRSGSRSLSTADMTKGLVL GIYSKEKEDDVP\QFTSAGENFD KSLAGKLRETLNISGPPLKAGK TRTFYGLHQDFPSVVLVGLGK KAAGIDEQENWHEGKENIRAA VAAGCRQIQDLELSSVEVDPCG DAQAAAEGAVLGLYEYDDLK QKKKMAVSAKLYGSGDQEA WQKGVLFASGQNLARQLMETPA NEMTPTRFAEIIKLNLSASSKT EVHIRPKSWIEEQAMGSFLSVA KGSDEPPVFLEIHYKGSPNANE PPLVFVGKGITFDSSGISIKASA NMDLMRADMGGAATICS AIVS AAKLNLPINIIGLAPLCENMP SGKANKPGDVVRAKNGKTIQVDN TDA\EGRLILADALCYAHTFNP KVILNAATLTGAMDVALGSGA TGVFTNSSWLWNKLFEASIE TGDRVWRMPLFEHYTRQVDCQL AD\VNNIGKYRSAGACTAAAF LKEFVTHPKWAHLDIAGVMTNK DEV PQSTGKA*LGRPTRTLNEF L\LRFSQDNCLVQILKNVFH SVLNWTVELKKVFE
11128	41496	A	11195	1	273	

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11129	41497	A	11196	2996	8256	LPTRRSWAVFFKGGESGAHTLR RKARKKRKKQVKGGSPKKGEE AKKVEAPRLPKLAAPGGGAGA KGGAGGTSDMRLWSVVLHLG LLSAALGCGLAERPRRARRDPR AGRPPRPAAGPATCATRGRPP RLAAAAAAGRAWEAVRVPR RRQQREARGATEEPSPPSRALY FSGRGEQLRVLRADLELPRDAF TLQVWLRAEGGQRSPAVITGL YDKCSYISRDRGWVVGHTISD QDNKDPRYFFSLKTDRARQV
11130	41498	A	11197	75	266	
11131	41499	B	11198	1	363	
11132	41500	A	11199	1	649	PRIRHEVIEEVIRMMLEIINSCLT NSLHHNPNLVYALLYKRDLFE Q\FRTHPSFQDIMQNIDLVISFFS SRLQAGAELSVERVLEIISQG\ ALRCPKDRLKEISQKLKFKYVE EEQPRGVF*SPYVWSLVLQLQQ SALYWEFHRTFQLFHPWDSRLR GRDASSPPGTPSSQGRPFQSSFIS GVTEVGQTGYLVYLLLKEDCT SVFSSHTLIWRIGC
11133	41501	A	11200	108	210	
11134	41502	A	11201	53	259	
11135	41503	A	11202	1	2679	
11136	41504	A	11203	1	675	
11137	41505	A	11204	834	1077	KGLWTVPPSFGDTVSGPPVPTG GSAGHTVPPPPR*CRRQPPPSPP WRRFLPQLRSRSSQPPAGPAR HLPPPAARPECFCA
11138	41506	A	11205	1	681	
11139	41507	A	11206	1777	1940	VPILPQPLLLHPIILLS*VPILPQP/ PAPPPYNPFITSPHTWSGLQFH SVTSPPPPAQQFTLKRVAEAKGI VK
11140	41508	A	11207	3	547	
11141	41509	A	11208	1	578	
11142	41510	A	11209	194	379	
11143	41511	A	11210	1	927	
11144	41512	B	11211	1	916	
11145	41513	A	11212	1	441	RRKLQKQALGPEQNLETLLNL ATSVFYNRDQEEQVQKEKRDQ RKAAALVMALRQTNLGGSERT EHEAGQSPGKACYQCGLLGHF KKDCPMRNKLPPR/RVSTMLRQ SLEGALPQRMKVPWVRSPQPD DPTTGLRVPGASASSCHHPH
11146	41514	A	11213	164	359	
11147	41515	C	11214	157	189	

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11148	41516	A	11215	13	399	VEAFPTGSEKATAVISSLLSDIIP QSRLPTSIPSDNRRAFISQISQAV FQALSIP*NLYIPYGPSSSRKH/T LTKLSHQLKKDWTILLPLSLLRI QACPRNATGYSPFKVLYRHSFL LRPSLIPDTRPT
11149	41517	A	11216	2	152	WYGEIMGDVSQGCER*WAMF LRAASSGIRGGVGT*SGRH*AE GRFYGDFRGNRAASVFSR
11150	41518	A	11217	1	1143	
11151	41519	A	11218	28	453	
11152	41520	A	11219	275	1128	DISTPSLATDHMPITIPNLIT/TY PTQRQYPIPPHALKGLKPVITDL LQHRLLKPINSYPNSPILPVQKP DKSYRLVQDLRLTNQIVLPIHP VVPNLYTLLSSIPSTTHYSVLH LKDAFFTIPLHPSSQPLFAVTWT DPDTQQSQQLTWAVLPQGFRD SPHYFSQALSHDLLSFHPSASHL IQYIDDLLCSPSFESSQQDTLL LLQHLFSKGYQSDDRPAFTSQI TQAVSQALGIQWNLHIPYHPQS SGKVEWTNGLLKLTLTANI DDTSYLQIPHKGLQ
11153	41521	A	11220	1	606	
11154	41522	A	11221	713	835	LSQWRSDNGPAFISQITQAVSQ APGIQ*NLYIPYHPQSSGK
11155	41523	A	11222	1	1133	AEALPVQFYFHLSDIRGMLLHE PDLQKGKAVSQEDPQWSYQA DSPGIARRDYMVSRLVEGLKK AAYKAVNYDKLKKTTQVTIVP GPDFNLASHIIPDTTPDPHDCYL SDTPGIHSISHISFFAIPHPDHTW FIDGSSTTPNRHTPAKAGYAIVP STSHIEAAALPPSATSRQAKLIAL TRTLTLAKELCVNIYTDSKYAF HILHHHAVIWAERGFLTQGW SNINASLIKTLKATLLPKEAGV IHCKGHQKASDPQAQNTYAD KIAKEAASGPTSVPHGQFFSFL VTPTYSPTKTSTYPSLLTQGW FLDQGKYLLPASKAHSILPSFH NLFHVGYKPLAHLLEYLISFLS WKSILKEITSQ*SICYSTTPQG
11156	41524	B	11223	1	1156	
11157	41525	A	11224	1	4991	
11158	41526	A	11225	3	590	
11159	41527	A	11226	203	1772	
11160	41528	A	11227	1	1669	
11161	41529	A	11228	1473	1604	
11162	41530	A	11229	82	159	

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11163	41531	A	11230	1	1323	
11164	41532	A	11231	377	631	LLKGKLTNRKDIHTKTPSVRHH HRRPKPGRDTTKKIILNQYPW* TSMQKSSIKYWQTESSSTSKSLS TMIKLASSLGCKNWKKL
11165	41533	C	11232	1	1677	
11166	41534	A	11233	753	966	FVFLWSLMMVTYRWGFGVDV LSVC*FSFQQS\EPQLQVCWSLL EVHS*PCLPGYQQRN\SCWPRG SCDVVIT
11167	41535	A	11234	1253	1459	LSDSPKLK*RKKC*GQPERKVG LPTKGSPSD*QQISWQKLCKPE ESGGQYSTFLKKRIFNPEFHIQQ
11168	41536	B	11235	1	924	
11169	41537	A	11236	299	436	
11170	41538	A	11237	259	536	FQKEWYQLLLVPLV/EIWL*IHL VLDF*LVNY*LLPQFQSMMLLV SSEIQLLPGLVLGECMCQGIYPF LLDFLWSLMMVTYRWGFGVD VLCVC
11171	41539	B	11238	79	1587	
11172	41540	A	11239	1608	1763	
11173	41541	A	11240	1	2001	
11174	41542	B	11241	1	741	
11175	41543	B	11242	1	1368	
11176	41544	C	11243	1	3924	
11177	41545	A	11244	470	619	KVTRGWGSPHQDAG*SPCQSH QDQTP*GILKEHQEKARRK*RQ LCVLQL
11178	41546	B	11245	1	3546	
11179	41547	A	11246	363	476	
11180	41548	A	11247	1	759	
11181	41549	C	11248	376	986	
11182	41550	A	11249	556	821	MSIRSTWRRAEFNSWVSFLTFR LVDLSLVFDDGDVQVGFWCGC PSCLLVFLL/ISQDPQLQVCWSL QEVHSRPCSPGYQQQLQYSEY
11183	41551	A	11250	119	340	
11184	41552	B	11251	1	942	
11185	41553	A	11252	436	732	LHIWPFLLPCKAQNQVHCSKFC PLGRFPFMAVLQGCPRKGL*CC SCPLLGGIWISCRICAFRTYLRP IMYIPLPFADGMMLCTAHSMAR CFGYCSLVV
11186	41554	C	11253	1	1878	
11187	41555	A	11254	720	1535	ILPEVQGGAGTI*LSLFLIE*PLF LSPA*LPWPELPTLC*IGVVRDG TPVLCQFSKGMLPVFAHSV

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11188	41556	A	11255	2	1059	WLLAASPLWLCRIRP/LILAAFM GWQSRSA LGTQS QESGKGSPD QVLVPQDCGPWLGSVELVSVP GSQAGEEPILSENKGRVTQMKI PEERSGSNICCSAIFAVLQPPLLI PRQTRSGVDLQQNPTDLQLRVL TVRRKTNKEKGHPHQNPCTCTSP ASKTKGALRFIKQVLRDLERAL DSHTIMGDFNTPLSTLDRSTRQ KVNKDIQELNSALHQVDLIDIY RTLHPKSTEYTVFSAPHHTYSKI DHTVGSKALLSKCKRIEILTNC SDHSAIKLELRIKKLTQNHSTTL KLNNLLLNDYWVHKETKAEIK MVFEIDENKDTIYQNLWDTFK AVCRGKFIALKAHKRKQERV
11189	41557	A	11256	82	159	
11190	41558	A	11257	820	1358	HTDGFLVWMPFLVFSFNSQD RQLQVCWRLLEVHSRCPFGY QQRWLQNNRY/SVNRKCCCLIV PLEVLSQRSTHQHVGEWLCLL GRKFPAGMEACTAMLCSSSVL EAATLSFSVQHRCTGGS*KPQ QGRVYPSEGRENHGAFAFGPF CSSECPASCPDPTQPCAPGTI PFFSCQT
11191	41559	A	11258	2435	3261	QVRGYRCRFVTWVNCMSLRFG VQRIPSPSLTGTQPPVGAD*HLT RPGTPLR*NQQRNDQAVTFAVH \\HIH\FVQPLLLIPMQTGSVDLR QTPTDLQLRVLTVRRKTNKQK GHPHRNPICMSPSSKTKARQAN IQIQEIQRTPQRYSSRRATPRHII VRFTKVEMKEKKLRAAREKGR VTHKGKPIRLTVDLLAETLQAR REWGPINFILKEKNFQPRISYPA KLNFISEEEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNQ YQPLQNHAKL

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11192	41560	A	11260	1439	2544	VSSTTKEKALSVPWRWCILQKK NPPNHQPVSLPEVFLPQILKFSG PPHWRRIEDEYKVMRLNIGDM KTKKKMLEKYEQLEIRHQQKS RT*KAVCCIT*LSRHIILLGQAPL VQQSM*QPESHHQVNPPETSYG IHQTPKLS*IGIK*RPWIM/MSEV KGYKVGNNFFAKAPNRAPPLL KPRQTGSGVDLQQTPADLQLR VLTVRRNTNKQKGHPHQNPIC SPSSKTKEVENLEKRLDKWLTR LTNVEKSLNDLMELKTMAREL HDEGTSFSSQFDQLEERVPMME DQMNMKQEEKFREKRMKRN EQSLQEIRDYVKRPNRLRIGVPE SDGENGTKLENTLQDIIQENFPS LARQANIQEIQRMPQR
11193	41561	A	11261	2772	3111	QSGPSAAGLLEFAGGGLQTLFA WVSAAEVGKCKGSGSSLS*PK KGVMDGTWKIGSLPPEYCAFPT G*KNGAP/LRLYPTPGSEGPTPT ESP*/FASTAVGDQATARQQRGW GRGARH
11194	41562	A	11262	248	597	DRCPAAWDRHPAGIQSSRREPS KATWTLRSKLSVQDGRDSSL RLNCKVAARLGAGHPMLRLG LRC*YPGKQGLEWTSSKLQQTC H*GS*LLKGKLTNRKDIHSKTPS VRHYHQR
11195	41563	B	11263	1	2250	
11196	41564	A	11264	1298	1681	GVSVPLLWGASQLGYLGVMDB LAEAVCPFSDLQLHSGRTSTVF KAALGQSGAHCPCVSAQS* AD*RALREHKQ*FGSTLCGPVM VVAMELGSSSTMVELVSSPANS VKVFLFLHIFSSTCCFLTFS
11197	41565	A	11265	1272	1497	SGLLPIKVAFTKPQFLFILLRIWL *RGYVFCSWKVTTTPREQPQCIT DGYQIFIMQKTLSCLSILGKRT MSLMQ
11198	41566	A	11266	1	1071	
11199	41567	A	11267	788	1286	
11200	41568	A	11268	3	455	
11201	41569	A	11269	1	711	
11202	41570	A	11270	225	525	GGGENFSYPWYLLVGCWGFSS SPIVPDVPPFSLLLPAQKKKPAP PK\PEPKPKKAPAKKGEKVPKG KKGKADAGKEGNNPAENGDA KTAQAQKAEGAGDAK

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11203	41571	A	11271	914	1261	TAKPKTNWCCRAPTSRLASTFA TMPFKKAECVGDAHPATVKDE PQRISARLS\AKPAPPKPEPKPK KAPAKKGEKVPKGKKGKAD\A GKEG\NNPAEN\GDAKTDQAQK A\EGA\GDAK
11204	41572	A	11272	3	359	
11205	41573	A	11273	440	642	WKAEREEIEPR/PKKAPAKKGE KVPKGKKGKAEAGQDGNPTE NGDAKTDQGQKAEGAGDAKR TVSHQN
11206	41574	A	11274	499	723	
11207	41575	A	11275	147	459	STYVPLPSPSSMPKRKAEGHA MGDKAKVKDEPQRRFARLS\A KPAPPKPEPKPKAPAKKGEKV PKGKKGKAD\AGKEGE*PLQKN GDAKTDQAQKA\EGA\GDAK
11208	41576	B	11276	179	400	
11209	41577	A	11277	24	601	
11210	41578	A	11278	266	441	
11211	41579	A	11279	17	570	HQPKKDLTGFVKWPRYIRLQR QRAILYKRLKVHLAINQFTQAL ARQTATQLLKLAKHYRPETKQ EKKQRLARAEEKKAAGKGDVP TKRPPVLRAGVNTVTTLVENK KAQLVVIAHDVGPIELVVFLPA LCRKMGVPCQ\IKGKARLG\R LVHRK\TCTTCRFTQ\VNS\EDK GALAK\LVEAIRTNYNDRYDEI R\RHWGGNVLPKSVARIJAL\ EKAKAKELAH*TGGSYQDQLQ
11212	41580	A	11280	175	289	RPCVKESGKPHLKSSTMWTTL KLLRI*PRRTTCSPLS
11213	41581	A	11281	205	361	
11214	41582	A	11282	144	396	CLEVLHKILFFEMESHSVTQAG VQWRDLGSLQPLPPG\SSNSPTS ASQVAGIRSMRQKGRANFFVFL VEMGFHHVGQADLELLTL
11215	41583	A	11283	241	550	
11216	41584	A	11284	2	106	
11217	41585	A	11285	2	447	PPLSRLLCPRHPHSGWPEGYSPE HLRCGLRSGTLRSRQALHCQVS SNP*PPLWF*GCGNVL*ELCLF VLPVSVNLYQVLLSEIWEFHRT

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11218	41586	A	11286	1	2172	PAGRCRTAWAVAAQQLMLSA ALRTLKHVLYYSRQCLMVSRN LGSVGYDPNEKTFDKILVANRG EIACRVIRTCKKMGIKTVAIHSD VDASSVHVKMADEAVCVGPAP TSKSYLNMDAIMEAIKKTRAQ AVHPGYGFLSENKEFARCLAAE DVVFIGPDTHAIQAMGDKIESK LLAKKAEVNTIPGFDGVVKDA EEAVRIAREIGYPVMIKASAGG GGKGMRIAWDDEETRDGFRLS SQEAASSFGDDRLLIEKFIDNPR HIEIQVLGDKHGNALWLNREC SIQRRNQKVVEEAPSIFLDAETR RAMGEQAVALARAVKYSSAGT VEFLVDSKKNFYFLEMNTRLQ VEHPVTECITGLDLVQEMIRVA KGYPLRHKQADIRINGWAVEC RVYAEDPYKSFGLPSIGRLSQY QEPLHLPQVRVDSGIQPGSDISI YYDPMISKLITYGSDRTEALKR MADALDNYVIRGVTHNIALLR EVIIN\SRFGKRNLT*FLASKGF PEAFKGHILTKS\EKTQFLAIAS\ SLFV\AFQLRAQH\FQENSMPVI KPDIANWELSVKLHDKVHTVV ASNNGSVFSVEVDGSKLNVSTST WNL\ASPLLSVSVDEHSEGLFQ CLSREAGGNMSIQFLGTVYKV NILTRLAAELNKFMLEKVTEDT SSVLRSPMPGVVVAVSVKPGD AVAEGQEICVIEAMKMQNSMT
11219	41587	A	11287	62	2600	
11220	41588	C	11288	277	508	
11221	41589	B	11289	94	1440	
11222	41590	A	11290	57	237	FLHAENKAHRPGISLCGLRAQP RQPASRHAW*SMRSEQRPWLT ASGRSSGQTRSSRLG

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11223	41591	A	11291	3	1968	EFDYSEDKSSWDNQQENPPPTK KIGKKPVAKMPLRRPKMKKTP EKLDNTPASPPRSPAEPNDIPIA KGTYTFDIDKWDDPNFNPFSST SKMQESPQLPQQSYNFDPDTC ESVDPFKTSSKTPSSPSKSPASFE IPASAMEANGVDGDGLNPKPAK KKKTPLKTDTRVKKSPKRSPL SDPPSQDPTPAATPETPPVISAV VHATDEEKLAVTNQKWTCMT VDLEADKQDYPQPSDLSTFVNE TKFSSPTEELDYRNSYEIEYME KIGSSLPQDDAPKKQALYLMF DTSQESPVKSSPVRMESPTPCS GS\SFEETEALVNTAAKNQHPV PRGLAPNQESHQVPEKSSQKE LEAMGLGTPSEAIEITAPEGSA SADALLSRLAHPVSLCG\ALDY LEPDLAEKNPPLFAQKLQREA\ VHPTDVS\SKTALYSRIRTTVE KPAGLLFQQPDL\DSALQIARAE I\TKEREVSEWKDKYEESSR\RE VMEMRKIVAIEYKTIQMIEDE QREKSVSHQTVQQVLVEKEQA LADLNSVEKSLADLFRRYEKM KEVLEGFRKNEEVLRCAQEY LSRVKKEEQRYQALKVHAEEK LDRANAEIAQVRGKAQQEQAA HQASLRKEQLRVDALERTLEQ KNKEIEELTKICDELIAMGKS
11224	41592	A	11292	63	2203	
11225	41593	A	11293	27	586	
11226	41594	A	11294	89	288	
11227	41595	A	11295	1	522	HERFETTYFKKFP\GYVVTGDG CQRDQDGYWITGRIDMLNV SGHLLSTAEEVESALVEH*RLLQ EA\AVVGHPHPCEGVNASYCFV TLCDGHTFSPKLTEELKKA\VM RKRLAPFATPDYIQNAPGLPKT\ RSGKIMRRVLRKIAQNDHDLG DMSTVADPS\VISHLFSHRCLTI
11228	41596	A	11296	2	569	
11229	41597	B	11297	1	990	
11230	41598	A	11298	1	252	
11231	41599	A	11299	39	174	RHIYSSNEVH*KEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEE EEEEEIPLSSL

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11232	41600	A	11300	16	379	ILDTSPMRWTQKNFSMILAQPE QQCKTLSQNKNDRIKKKEE KKKKKKKKKKKKKKKKKKKK KKKKK*EKEKEKEKEKKKEE EEKKK/QEEEEEEEEEEEEEEEE EEEEEEEEEEERRRR
11233	41601	A	11301	1	249	
11234	41602	A	11302	1	353	
11235	41603	A	11303	1	847	
11236	41604	A	11304	3	224	QEKRRRKEKKK\EEEEEEEEEE EEEEEEEEEEKKKKKKKKKK KKKKKKKKKKKKKKKKKKKK KKKKKKKKKKGRKTDLAVDPV
11237	41605	A	11305	1	417	
11238	41606	A	11306	1	1314	
11239	41607	B	11307	1	133	
11240	41608	A	11308	45	266	
11241	41609	A	11309	35	313	FLQMEDTYIVTKLLLLRFAWL YDLVFLI*YRKKRRKKRKK KEKEKEKEKKKKKKKKKKKK KKKKKKKKKKKRKKEMALQS CSLWYLYA
11242	41610	C	11310	240	391	
11243	41611	A	11311	1	579	
11244	41612	A	11312	141	410	PEPILTMESKGMWQLFELTL/H NSKVNTLSKELHSEFSEVMNEI WASDQIRSAVLISKPGCFIAGA DINMLAACKDPSRSNTAIRKH RE
11245	41613	A	11313	1	358	KWFTPMFEIKGGYA*SKNWR LSVRCGGWPLRRLMEEGSLPNP SRIYYRNKLRLKSQNNSSVDPC MRNLDECEVCRDGWELFCCDT CSRVFHDDCHIPPESEKMKES AGSQCCQES
11246	41614	A	11314	1	921	
11247	41615	A	11315	108	2765	

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11248	41616	A	11316	98	2418	AKLMAQQGQQGQMASGDSNL NFRMVAEIQNVEGQNLQEQVC PEPIFRFFRENKVEIASAITRFPF FLMGLRDRSFISEQMYEHFQEA FRNLVPVTRVMYCVLSELEKTF GWSHLEALFSRINLMAYPDLNE IYRSFQNVCEHSPLQMNNVN DLEDPRLLPYGKQENSNACHE MDDIAPQEALSSSARCEPGFS SESCEQLALPKAGGDAEDAPS LLPVSCKLAIQIDEGESEEMPKL LPYDTEETFDLKTPQVTNEGEP EKGLCLLPGEEGEGSDDCSEM DGEERQEASSSLARRGSVSSEL ENHPMNEEGESEELASSLLYDN VPGAEQSAYENEKCSVMCF EEVPGSPEARTESDQACGTMDT VDIANNSTLGKPKRKRKRG HGWSRMRMRQKNSQQNDNS KADGQVVSSEKKANVNLKDL KIRGRKRGKPGTRFTQSDRAAQ KRVRSRASRKHKDETVDFKAP LLPVTCGGVKGILHKKKLQGGI LVKCIQTEDGKWFTPTFEIKG GHARSKNWRLSVRCGGWPLR WLMENGFLPDPRIRYRKKKRI LKSQNNSSVDPCMRNLDECEV CRDGGELFCCDTCRVFHEDCH IPPVEAERTPWNCIFCRMKESPG SQQCCQESEVLERQMCPEEQLK CEFLLKVVCCSESSFFAKIPYY YYIREACQGLKEPMWLDKIKK
11249	41617	A	11317	1	1210	
11250	41618	A	11318	1	743	MRYKKEQPLFLPKYDLGADAA ILQPQEEDCGSTQVRGGHRTK TEETGLLVTSLNQGIKPHDSVT KLLSPQRSSVLFLLLITSGVHTD SSKAVLESRRSLGYEASFLEYF QSFYKLFVDRLYAWHCSDDR NTTVTAINTDRPGLLTSLTVTI GQGSKKAPSGFSHISAPTQVQ QPILCDDRDFSPSSFPSTNTPSQF ATNEVLTGPPPGAG/CCQYSTI TRKTGPNCQAGGCPGGARPAK
11251	41619	A	11319	314	486	
11252	41620	A	11320	3	122	
11253	41621	A	11321	1	289	
11254	41622	A	11322	1	399	
11255	41623	A	11323	3	259	

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11256	41624	A	11324	1	369	MPATWEAEARESHKREFETHL/ VQHSETPSEKEEEE\EEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE EEEGEEEEEEEEEEEEEEEEEEEEEE GEEEEEEEEEEEEEEEEDEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE EEEEEGEEEEEEEEEEEEEEEEEEEE EEGEEEEEEEEEEEEEEEEDEEEEE
11257	41625	B	11325	1	441	
11258	41626	A	11326	1	267	
11259	41627	B	11327	1	234	
11260	41628	A	11328	1	383	MVRPFLYKKIKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE EGEEEEEEEEEEEEEEEEDEKD DEEER/EKKEEEEEEEEEEEEEEE EEEEEEEEEEEEEEKKHSL*DPD LGEKENKGQRKRKLARGTSQP SLSPGGSDPLGA
11261	41629	A	11329	305	625	VAPGDRHAFPLAPSGLSPELTLP QTQCCAQATVQGLEGTRSWSQ SGTSSLSPWSHTSLRRRRKEEG EEEEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEE/IEEGEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE EEEEAAKTQ
11262	41630	A	11330	294	501	AFDKQPRGRGRVVKEEVLKKK KKEEEKKEEGEEEEEEEEEEEEEE E/EEDEEEEEEEEEEEEEEEEEEE EEEEEEEE
11263	41631	C	11331	618	966	
11264	41632	B	11332	1	332	
11265	41633	A	11333	1	705	
11266	41634	A	11334	1	417	
11267	41635	A	11335	1	639	
11268	41636	A	11336	2	2347	LMLVVIFNGTERIEDLRKPPSFD AILGGGLRVLFFQNEAHPPFAS WRNNEEARTDRPSQQLRSLNG KWRLMRYFLLTHLCETLVKVK DAEDQLGARVGYIELDLNSGKI LESFRPEERFPMSTFKGLLCG AVLSRIDAGQEQLGRRHIYSQN DLGEYSPVTEKHLTDGMTVRE LCSAAITMSDNTAANLLTTIG GPNELTAFLHNMGDHVTRLDR SEPENEAIPNDERDTRCLGQW QQRSQTINWPTTTLAP
11269	41637	A	11337	56	243	YSCLMFPODGE*LEKEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEN

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11270	41638	A	11338	1	503	MKHQHFALLVPEKFLIAQSTAS RVDRRQIWRDVSSERGEISQCL KVGTSLSNSTDVSAVEAVRATV LGSGTLTPTVLRNAGPYTRIST VPACLLGQEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEK/EEEE/EEE EEEEEEEEEEEEEEEEEEEEEEEE EEGEEEEERRKS
11271	41639	A	11339	1	651	
11272	41640	A	11340	1	2184	MNIDANIPNKILENRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTKDKNCMIISIDA EK AFDKIQQCFMLETNLKLGIGGT YLKIIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLAIRAIRQEKEIKGVQLGKE EVKLSLFADDMIVYLENPIVSA QHLLKLISNFSKVSQYKINVQK SQAFLYTNNRQTENQIMSELPF TIASKRIKYRGIQLTRDLKDLFK ENDKPLLKEIKED/DKEMEEHS MLMGRKNQYRENSHAAQEELE KNYFKVHMEPKKSPHYQVNP PKEQSGRHHVT*LQITLQGYSN QNSMVLVPKQTYRSMEQNRSL RNNATYLQLSDL*QTQEKQAM GKGFPI**MVLGKLASHM*KPE TGSLPYTLYKNQFKVD*RLKR* T*NHKNQRRKPRHYHSGHRHG QGLHV*NTKINGNKNQN*QMG SN*TKELLHSKRNYRQSDQATY KMGENFHNLLIRQRANIQNVQ* TQTNLQEKKNQPHQKVGE GHE QTLLKRRHLCSQKTHEK\NSPSL AIREMQIKTTMRYHLTPVRMAI IKKSGNSRKHIQKKEEEEEEEEA EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEKCSLKHTEAPCVKGIETIFW NKFSLCDITKSYLSGVQKLEER AHKVKLALKFKKEIKMALHGG
11273	41641	A	11341	1	870	
11274	41642	A	11342	2	259	GSTISCARCAELRGSASRFRPLP AAAMKWMFKEDHSLEHRCVE SAKIRAKYPDRVPLTMGQLYE KEKDEDGFLCVAYSGENTFGF

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11275	41643	A	11343	1	461	GCRRCRRRCCCARCAELRGS ASRFRPLPAAAMKWMFKEDR WLEHRCVESAK\IRAKYPDRVP VIVEK\VSQGSQIVDIDKRKYL VPSDITV\AQFMWIIRKRIQLPSE KA\IFLFVDKTVPQSSLTMGQLY EKEK\DEDGFLYVA\YSGRGTLF
11276	41644	A	11344	1	966	
11277	41645	A	11345	1	1037	RPPFPVPGVQKCLPTRGGLHIG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRSPVASGREM VVLSPVAEVT\VILLDI\EGTTT\P IAFVKG/DILFPYIERKMLK\EYL QTHW\EEEEFQ\QDVSLFEGNK A\EEDAHLDG\AVPIPGKHLGIG V\DD\LQQM\QAVVDNVCWQM SLDRKTTALK\QLQGH\MWRRAA FTAGRMK\AEFFADVPA\VR\K WREAG\MKVYIYSSGSVEAQKL LFGHSTEGDILEL\VDGHF\DTKI GHKRRRVKVTRK\IADSI\GCST\N KHFVFWTDVTSRRASAGLRE AGCCTLAV\VRPG\NAGINR*L RKTYYSLITSFQWNYLPSST
11278	41646	A	11346	346	858	
11279	41647	A	11347	1	234	
11280	41648	A	11348	1	1696	
11281	41649	A	11349	1	234	
11282	41650	A	11350	1	1696	
11283	41651	A	11351	1	211	
11284	41652	A	11352	1	417	
11285	41653	A	11353	1	1458	
11286	41654	A	11354	219	329	
11287	41655	A	11355	132	451	
11288	41656	A	11356	1	996	
11289	41657	A	11357	1	867	MARLWGALSLWPLWAAVPWG GAAAVGVRACSSTAAPDGVEG PALRRSYWRHLRRLVLGPPEPP FSHVCQVGDPVLRGVAAPVER AQLGGPELQRLTQRLVQVMRR RRCVGLSAPQLGVPRQVLAL PEALCRECPPRQRALRQMEFP LRVFNPSLRVLDLSTVTFPEG CESVAGFLACVPRFQAVQISGL DPNGEQVWQASGWAARIQ EMDHLQGCLFIDKMDSRTFTN VYWMKVND*SFATGAEDSGY QDANTFTLSWANLTWHQLGW LAYDRKLDLCQGMAD
11290	41658	A	11358	3	226	
11291	41659	A	11359	1	756	

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11292	41660	A	11360	35	142	
11293	41661	C	11361	151	484	
11294	41662	A	11362	1	1245	
11295	41663	A	11363	2	1464	CQAKFIMNRLKK/NERQKVQDI KEVKQNIHLIRASFAGKGKQLE EKMQPLEPEAIMLSELMQEKT KCRMFSLSGKHGVHMDSKTG ATDSGAYLRVEEIQTIREYYK HLYANKLENLEEMDKFLDKYT LPRLNQEEVESLNRPTGAELAI ISSLPTKKSPGPDGFTAIFYLRY KEELVPFLLKLSQSIEREGILPNS FYEASHILIPKGRDITTKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNL RKSINVIQHINRAKDKNHMISI HEEKAFDKIQPFMLKTLNKL IDGTYLKIIRAIYDKPTANILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLARAIQEKEIKGIHL GKEEVTLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASRRIKYLGILTRDMKD LFKENYKPLLSEIVTVF
11296	41664	A	11364	41	559	
11297	41665	C	11365	63	370	
11298	41666	A	11366	3	211	
11299	41667	A	11367	47	358	PDMGLEDEQKMLTESGDPEEE EEEEELVIGLRLSVHTGNLGRP GM*NFPLLLSIQN*MGDPHSAIS GGQCGSASWPSARIPLQQVREQ CRASWKKCVK\ARERLEL\CDE R*SSRSHTEDCT\EELFDF\H A\RDHC\VAHKLL*QLAFCTDPP TTSERAMPSQLEEMCKRPGSG
11300	41668	A	11368	1	2082	

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11301	41669	A	11369	1	2013	MKHLKRWSAGGGLLHLLTLL LSLAGLRVDLDLYLLPPPTLL QDELLFLGGPASSAYALSPFSAS GGWGRAGHLHPKGRELDPAAP PEGQLLREVRALGVFPVPRTSV DAWLVSVAAGSADEAHGLL GAAAASSTGGAGASVDGGSQA VQGGGGDPRAARSGPLDAGEE EKAPAEPTAQVPDAGGCASEE NGVLREKHEAVDHSSQHEENE ERVSAQKENSLLQNDDEENKI AEKPDWEAEKTTESRNEGISLG DIPLPGSISDGMNSSAHYHVNFS QAISQDVNLHEAILLCPNNTFR RDPTARTSQSQEPFLQLNSHTT NPEQTLPGTNLTGFLSPVDNHM RNLT SQDLLYDLINIFDEINLM SLATEDNFD\PIDVSHLFDEPDS DSGLTLDSSHNTSDIKSNSSHS VCDEGAIGYCTDHE\SSSHDL EGAVGGYYPEPSKLCHLDQSDS DFHGDLTFOHVFNHTYHLQP TAPESTS\EPFPWPGGRSQEGL RE*DTLKDTDRNLSRDEQRAK ALHIPF\SVDEIVGMPVDSFNSM LSRYLLTDLQVSLIRDIRRRGK NKVAAQNCRKRLDIILNLEDD VCNLQAKKETLKREQAQCCKA INIMKQKLHDLYHDIFSRLRDD QGRPVNPNHYALQCTHDGSILI VPKELVASGHKKETQKGKRK
11302	41670	A	11370	3	255	
11303	41671	A	11371	1	1611	
11304	41672	A	11372	109	207	MLCLQRFYMIFVDFQSRPQF*L KSCQHII SCHQ
11305	41673	A	11373	1	666	
11306	41674	A	11374	1	1254	

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11307	41675	A	11375	33	1458	KLPLKAKMGKEKTHINIVVIGH VDSGKSTTTGHLIYKCGGIDKR TIEKFEKEAAEMGKGSFKYAW VLDKLKAERERGITIDISLWKFE TSKYYVTIIDAPGHRDFIKNMIT GTSQADCAVLIVAAGVGEFEA GISKNGQTREHALLAYTLGVK QLIVGVNKMDSPEPPYSQKRYE EIVKEVSTYIKKIGYNPDTVAFV PISGWNGDNMLEPSANMPWFK GWKVTRKDGNASGTTLEALD CILPPTRPDKPLRLPLQDVYKI GGIGTVPVGRVETGVLPKGMV VT\FAPDNVTTEV*SVEMHHEA LSEALPGDN/VGAFNVKNVSVK DVRRGNVAGDSKNDPPMEAA GFTAQVILNHPGQISAGYAPV LDCHT\AHIACKFVAELKKK\DR RF\GKKLED\GPK\FWKS GDAI VDMVP\GKP\MCVESFS DYPPL GPFAVHDMRQT\VAGGAHQKQ VDKK\AAGA\GKVTK\SAQKAQ
11308	41676	A	11376	1	880	
11309	41677	A	11377	1304	2340	KETEAQRKRLRRNEPEEQEIRT RKTRSPQTPDQQTYKKGRNER LCGISQPTKEPTRGGFCFRNPP SNRIFACWGKPAWTACNSLR ARRMLMERNARAAGSRKRMG RMDCWARVLD\NLAAEAKSEP EKKAGVKRICKRRCTGSSFDL\ DY*LFNGDY YDRMYSYP\ARVP PPPPIARAVVP\SKRQRVSGNTS RRGKSGFNSKSGQRGSSKSGKL KGDD\LQAIKE\ELT\QIKRKSGF LFLGKTWEKIEKEQSKQAVEM KK**SQKEEQSSQLR*KKDET*C *RLEV LKGG\EDSA\EEGDLLD DDDNEDRGDDQLELIK DDEKE\ AEEEEDDRD\SANGR\DDSLST

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11310	41678	A	11378	80	1141	ETQNRISPPSPSCEIFLIFSIFRL CEKPYHQTRSASNVTNKTDPRS MNSRVFIGNLNTLVVKKSDVE AIFSKYGKIIVGCSVHKGFALSE SMLMKRNARAAVAGVEDGRMI AGQVLDINLAAEPKVN RGKAG VKRSAAEMYG/SQ*QNTLLRPL YFSSFDLDYDFQRDY YDRMY SYPARVPPPPPIARAVVPSKRQR VSGNTRRRGK\SGFNSKEWNSG VSSKFWKR*KGDDLQ\AIKEEL T\QIKQKVDSL\LENLEKIEKEQS KQAVEMKNDKSEEE\QSSSS\LK KDET\NLKMESEGGCRLTLPEE GDP\LD**YDE**RSGGNDPAGS *SKDDEK\EAEE\GEDDDR\AN G\EDDS
11311	41679	A	11379	1	1134	
11312	41680	A	11380	1	642	
11313	41681	A	11381	397	898	
11314	41682	A	11382	1	663	
11315	41683	A	11383	44	398	ATMLGLNIISRKWFYKSSEKSL GLRGGLGRPLAFTLYSLLQAAL LCVNAIAVLHE/ERRISSKNICA GGTRTIGIGWIWEKEPGIKSQL MNLIRSVRTEM RVPLIIVNSIAI VLLLLFG
11316	41684	A	11384	3	754	GLYRKCQLISKEDVTHDTRLF CLMLPPSTHLQVPI/GEHVYLKL PITGTEIVKPYTPVSGSLLSEFKE PVLNNKYIYFLIKIYPTGLFTPE LDRLQIGDFVS VSSPEGNFKISK FQELEDLFLAAGTGFTPMVKI LNYALTDIPSLRKVKLMFFNKT EDDIWRSQLEKLAFKDKRLDV EFVLSAPISEWNGKQGHISPALL SEFWKRNLDSKVLVCICGPVP FTEQGVRLHLHDLNFSKNEHSFT
11317	41685	A	11385	1	1785	
11318	41686	A	11386	95	369	
11319	41687	A	11387	511	728	
11320	41688	A	11388	1	100	
11321	41689	A	11389	1	777	

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11322	41690	A	11390	2	707	PNPKCR*VFPVFLFYRPI*PFPSS PA/SLIARPS*VPILPQPPLL/TPY NPPTTSPPHTRSGLQFSSATSSSP PAQQFPLREVAGAEGIVNAHVP FSLSDLSQISQHLGSFSSDPTKYI QEFYRLTSLYNLTWSDLNVILT STLSPDERERVFPVSQSH/V**P/ SGFMSQTSRKALEQFPERIPQW NYQANSPGKNFKN*NLALKPH NRN*STLPSTCTIIERKQPDGNA FLSYNYLPP
11323	41691	A	11391	2	339	LLFRSLPAKLNQAPILPWPL/PP PPYNPSITSPVHTWFSLQFHSET SPPPPAQFPLRAVAGTEGIVR MNGKEFFLQPNLTLITAGFKSQ TSRKALEQFPERIPNGTIRQIPQ
11324	41692	A	11392	1	993	
11325	41693	A	11393	3	1127	TKETRFIHGPKTPAPVTDWEGS LPLVFNHCRDASLIHSRFGVR PHRDTCLGPSPLAASPAFLGKG QAAHCQAELSPNSSASTPPPY NPSITSPPHTRSGLQFSSATSSSP PAQQFPLREVAGAEGIVRVHVP FSLSDLSQISQCLGSFSSDPTKY TQEFQCLTSLYNLTWSDLNVL TSTLSPDEWERVSSLAQSHADN VPGFTSQTSRKALEQFPE/TDPQ WNHQANSPGIARRDYMVSCLV EGLKKAAYKAVNYDKLKETTQ GEDENPAQVVARLAATLRRFT ALDPEGPEGRILNMHFITQSAP DITKKLQKLESGPQTPQELINL TFKVHNNGEETDAARSPWKPP GPSRTPSFRACFPCPHNFCGY
11326	41694	A	11394	1	312	
11327	41695	A	11395	1	244	MFADR*LFSTTHQSIVPLYL\LF GA*AGVLATA\LSLLIRAELGQP GNLLGNDHIYNVIVTAHAFVIIF FIVIPHIIGGFGN*LVP LIIGAPDM AFPRINNISF*LLPPSLLLLLAS\A IVEVAGAGTRLNKSYPPLAGNY SHPWKPPVDLTIFSLHLAGVSSI LGAINFITTIINIKPPAITQYQTPL FV*STTHQSHRTTIPIYSAHELA SSPQPLSLLIRAELGQPGNLLGN DHIYNVIVTAHAFVIIF FIVIPHIIG GFGN
11328	41696	A	11396	1	1287	
11329	41697	A	11397	3	583	

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11330	41698	A	11398	3	419	ILSISKLR TSLAGEGSVDTPKAS GVTRHIKGPVAAEMSAFILPL PG*VSPGWEWAASAVLNGLRT TLALRRGVCLIRSRPGTLGLED GASPRTESLHTGTACKGAVDGS SEVDEKLKRIALDFLGLHGGDD PRSSWH
11331	41699	B	11399	1	1242	
11332	41700	C	11400	504	755	
11333	41701	A	11401	155	710	ETETTGEREGSLSNHPSNPTAA GLSLDTMKSHCPNHSSLLSTAA SPPKLWRCFKEEH\ELAVLGAP PKPLLPTSHRDPTSASVYLRA THVVWSLFKHPLS*TPCCMGF\I AFA\YSVKSRDRKIGCERDPGPI AYASTAK\CLN\WALILGLLHD HSGSSSPVLIVPGLWDRSGGIT GGQELCP
11334	41702	A	11402	1	1158	
11335	41703	A	11403	80	996	LKKGFLSMGALDVLQMKEE DVLKFLAA\GTHLGGTNLD\FH MEQYIYKRKSDGIYIYLMRTW EKLL\LAARAIVAIENPADVSAI SSRNTGQRAVLKFAAATGATPI AGRFTPGTFTNHIQAAFRE\PR\I LVVTDPRADHQPLTEASYVNL TIALCNTDSPLRYVDIAIPCNNK GAHSVGLMWWMLAREVLRM RGTISREHPWEVMPDLYFYRDP EEIEKEEQAAAEKAVTKEEFQ EWTAPAPEFTATQPEVADWSE GVQVPSVPIQQFPTEDWSAQPA TEDWSAAPTAAQATEWVGATTD WS
11336	41704	A	11404	1	819	
11337	41705	A	11405	1	1032	
11338	41706	B	11406	63	344	
11339	41707	A	11407	49	281	FFKSTVCSFQKQFQTLVPVIGGS IMY*DISDHRGQR**NVGPCGH
11340	41708	A	11408	985	1213	TQCVTINY*GMKWGSFGYIVFH KDGCALIDKRFHTFCVSFKGSQ IQSSAAFLIPDVQVHQRLQKDF QGLMVPVIGS
11341	41709	A	11409	1	774	
11342	41710	A	11410	3	249	
11343	41711	A	11411	3	619	
11344	41712	A	11412	3	493	

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11345	41713	A	11413	3	292	DALPRWPSGSGDGGAVREAGQ QGTRLERPAAVLIRAADPGRRT QALA/GLPRG*PHPRMDPPESFQ ATGGTQQMTSTAPSWLTM*LR SVSGW*ELKD
11346	41714	B	11414	190	315	
11347	41715	A	11415	227	545	
11348	41716	A	11416	1	1896	
11349	41717	B	11417	52	1822	
11350	41718	A	11418	1	458	
11351	41719	C	11419	196	327	
11352	41720	A	11420	258	375	TRALSKFGSSRVEQS*AGYSGP GTP*EGGSGILGETVC
11353	41721	A	11421	3	854	
11354	41722	A	11422	1	434	MTVSKNKCHTKGGKKGTEKK VVASFSKIYWYNVKAPAMFSIR NIGKALVIGTHGTDVSDGFKG GLIEIPDSIGKDKEKACRSIYPLH DVFVRKVKMLKKPKFELGKLM ELHGEGRSSGKATGNESGA/KV E*ADGYGSPAQKSF
11355	41723	A	11423	1	642	
11356	41724	A	11424	260	534	
11357	41725	A	11425	1	438	
11358	41726	C	11426	391	750	
11359	41727	A	11427	786	926	AQGQRQETIQGGRSLSRITYL* GRSGTSLSQKLAQLSSLTGDST
11360	41728	A	11428	488	649	VLQLLKVAHPELFIPPGGFVFSL TSGVKLHT*ALQLLKVAHPELL IPPGSWSH
11361	41729	A	11429	1	2028	
11362	41730	A	11430	1022	1417	SLMGTSTSSALGMHVPRAITRD VLSAPVIVSGNTAKFCTMLGHF LKKTRTERRDIQAP*SFISLPPKS TWEKLSSAAMVSTLR*GASDQ K/C*LLGGNDRVSLIVIQVEG\PL QDPGTLGRLLQSLTVKRISV
11363	41731	A	11431	1	535	
11364	41732	A	11432	3	1186	
11365	41733	A	11433	201	458	QVDGCIPELV*F*KKRGRGR RGRRRRRRGRRRREEGGGGGGG SFWRTHHTKPKDQHKKDTMG HFRSCAFQEGFVVHVPLLSSEK
11366	41734	A	11434	1392	1532	AQGQRQETIQGGRSLSRITYL* GRSGTSLSQKLAQLSSLTGDST
11367	41735	A	11435	1253	2820	
11368	41736	A	11436	1504	1718	VIGIWALALGILARPQRGFHV HLQDVGGAAA*AAKGLLRNVV R**VDQVQVSGAQGIAGVVVT VGGEEDF
11369	41737	B	11437	1	1383	

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11370	41738	A	11438	3	310	VHGRASSLGVG/TPIPKGHGQIK P/DRLKPPVYGACKLLDMELEM AFFVGPNGRLGEP/IPISKAHEPI FGMVL MNAWSARHIQKWEYV PLGPFLGKSFGTPVKSS
11371	41739	A	11439	1	1337	MSFIPVAEDSDFPPIHNLPGVFS TRGDPRPRIGVAIGDQILDLSIHK HLFTGPVLSKHQDVFNQPTLNS FMGLGQAAWKEARVFLQNLLS VSQARLRDDTELKRCAFISQAS ATMHLPATIGDYTDFYSSRQHA TNVGIMFRDKENALMPNWLHL PVGYHGRASSVVVSGTPIRRPM GQMKPDDSKPPVYGACKLLDM ELEMAFFVGPNGRLGEPISKA HEHIFGMVLMNDWSARDIQKW EYVPLGPFLGEEFWGHCLLPW VVPMDALMPFAVNPKNQGRG PCRYLCHDEPYTFDINLSVNLK G\EGMSQAAT\ICKVQILKMYMY WT\MLQQAHSPTLSNGC\NL\RP GDLLGFLGPIISGPGAQKNFGS\ MLELSWKGTKPID\LGNGQTR KFLLD\GDEVIITAMATRDFKW YS\QGDGY\RIGFGQ\CAGKVLP ALLPIMRFFLLF
11372	41740	B	11440	100	383	
11373	41741	A	11441	1	263	MEYYAAIKKDEFMSFVRIWMK LETIILSKLSQGQKTKHRRFSLI DG/IHHRSFTRTENS SQRTGRKC WN**PTCGLARSWFGKTWSGN
11374	41742	A	11442	2	160	
11375	41743	A	11443	150	308	CLHR*GRGSPRPGPGGGSTGGA GPGAGPSLAPPLPAQNAEGLGG RRRGNKYL
11376	41744	A	11444	1	372	
11377	41745	A	11445	49	177	SQQGLYAKPTSSQAL*GDGQAS AEMGRILSYE*EHAVFGFSSL
11378	41746	B	11446	1	420	
11379	41747	C	11447	1	334	
11380	41748	C	11448	1	268	
11381	41749	C	11449	1	564	
11382	41750	A	11450	1	264	
11383	41751	A	11451	33	194	
11384	41752	C	11452	1	309	
11385	41753	A	11453	1	738	
11386	41754	A	11454	1	2028	

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11387	41755	A	11455	3	1008	LKDAVFSIRISPESQKLFAFQWE DPESGVTTQYTWLTQTQGFENS PTIFGEALARDLQKFPKADLGCI LLLYMDDLLLGHSTAVRCAKG MDALLQHLEDCGYKVSKKKA QICRQQVTKWGDWERFEWEPL QQQAFCKLKEKFMSAPALGLP DLTKPFTLYVSEREKTA VGVLI QTVGPWPTPVAYLSKQLDGV KGWPPCLRALAATALLAQEAD KLTLVQNLNIKAPHAVGTSAQ KPELIALTRALESEG TWMKLE TIILSKLSQGQK/DQTLHVLTGIS RST*ACSCLASLQVGLETGSQ SLENPLRVGIQRRRCFTCAVDG EGFLLGV PMA
11388	41756	A	11456	677	879	KRRNHQILEIRSHLQSVEDNLK SGLGSTASL*MSWTQPRNGAE VGFLILGYIKETPRNAETPSMV
11389	41757	A	11457	1	624	
11390	41758	A	11458	3	130	VEEEQGH SFRNAR*IISW*RNEN GLDRMDCSCRNGERDKGHG
11391	41759	A	11459	1	1477	MADPPWSSVQVNKYDSGLLSS VSAEPLASSASSHPGMSDNAPA SLESGSSSTPTNCSTSSAIPQGA ATKPWRSKSLSVKHSATVSML SVKPPGPEAPRPTPEAMKPAPN NQKSMLEKLLKLFNSKGGSKAG EGPGSRDTSCERLETLPSEFESE ELEAASRMLTTVGPASSPKIAL KGIAQRTFSRALTNKKSSLKGN EKEKEKQQREKDKEKSKDLAK RASVTERLDLKEEPKEDPSGAA VPEMPKKSSKIASFIPKGGKLNS AKKEPMAPSHSGIPKPGMKSM GKSPSAPAPSKEGERSRSGKLSS GLPQQKPQLDGRHSSSSSLASS EGKGPGGTTLNHSISSQTVSGS VGTTQTTGSNTVSVQLPQPQQQ YNHPNTATVAPF*EGFHLP*HA *VITF*TANYASSDNDLNVGYT H*LTASEFFQSRLSSLGEVAGLH AHTC*A*LGSNIPFSVRLRPVPA ASAEDLRGHQGLIKDRAQVS
11392	41760	A	11460	1	327	LLLMGLKHNVLKLP RGPMTL RESVWETLNFLK*SFV*LNMLIF KKSS*RLQ*VRFHLCPRVLIVQ LPFMSENMRCLVFCSCVSLLRM MVSSFIHVPFFKVL SFFALG
11393	41761	B	11461	119	203	
11394	41762	B	11462	1	677	

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11395	41763	A	11463	2	74	
11396	41764	A	11464	1	1256	MSASQDSRSRDNGPDGMEPEC VIESNWNEIVDSFDDMNLSL LRDIYAYGFEKPSAIQQAILPC IRGYNVIAQARSGTGKMATFAI SILQQIELDLKTALVLAPTRE LAQQIQKVVMALVDYMGASC HACVRGTNMRAEVQKLQMEA PHIIVGTSPSRVFDMLYRIRYLA KSIRMLVLNEADEMLSRGFKG QIYDISKRLNSTTKVLLSAT MPFDVLEVTKKFMRGPH/IRIL VKKEELPLEGIRHFYINVEPEE NLDTLCDWYEP*PITQAVIFHQ PPGGKVDW/LSPEKMHARDST VPPMHGDMTKKE\RDVIMREF RSGS*PEF*ITPLTLPQGRPLMC QPGFL*SFKLMTLPPPTRGKLLI HRNRSRVDRFGRKGVA\NMVT EED\KRTLARDIETFYNTSIEEMP
11397	41765	A	11465	1	402	KSRGRGLPYTMDAFMLGMM LKYPNFVAT*ARGYPGFAPSYG YQPGFPAAAYGPVAAA ARGSGSNPARPGGFGANSPGP VADLYGPASQDSGVGNYSAS PQPGSGFR/HTGIAGPLIATAFT NGYH
11398	41766	A	11466	226	486	
11399	41767	A	11467	2	432	
11400	41768	A	11468	1	834	
11401	41769	A	11469	205	570	
11402	41770	B	11470	61	939	
11403	41771	A	11471	96	269	
11404	41772	A	11472	123	593	VAVLEARLLSPVRASKMTKKR RNNGRAKKGRG\HVQPIRCTNC ARCVPKDKA\IKKFVIRNIVEAA A\VRDISEASV\DAYVLPKL\YV KLHYCVSCAIHSNVVMESIVK ARKD\RTPPPRFRPGGCWPHVP PPKPNVRELEFFKDLKDRLISS WEEK
11405	41773	A	11473	1	228	
11406	41774	C	11474	187	423	
11407	41775	A	11475	1	546	
11408	41776	A	11476	1	1254	
11409	41777	A	11477	1	1386	

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11410	41778	A	11478	1	1445	HLKAKMGKEKTHINIVVIGHVD SGKSTTTGHLIYKCGGIDKRTIE KFEKEAAEMGKGSFKYAWVL DKLKAERERGITIDISLWKFETS KYYVTIIDAPGHRDFIKNMITGT SQADCAVLIVAAGVGEFEAGIS KNGQTREHALLAYTLGVKQLI VGVNKMDSTEPYPYSQKRYEEIV KEVSTYIKKIGYNPDTVAFVPIS GWNGDNMLEPSANMPWFKGW KVTRKDGNASGTTLLEALDCIL PPTRPTDKPLALPLQGVHKLK GIGTVSSAPMETGFSNPGMVV TFAPSPR*QRKVKSVEMH\HEA L\NEALSGEQCGLSMSKKVSVK ECFVRGN\VAG*PAKNDPTQWE ASWLSLLQVILEPSQAQISAGL CPLYWDC\HTGSHLHAKFAELK EKIDRR\SGKKV\EDGPKIL/RSL GDAAIVDMV\PG\RPMCVESFS DYPPLGRFAVRDMRQTVAVGV IKAVDKKAAGAGKV\TKSAQK
11411	41779	A	11479	1	996	

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11412	41780	A	11480	1	1875	MPSDLAKKKAAKKKEAAKAR QRPRKGHEENGDVVTEPQVAE KNEANGRETTEVDLLTKELEDF EMKKAARAVTGVLASHPNST DVHIINLSLTFHGQELLSDTKLE LNSGRRYGLIGLNGIGKSMLLS AIGKREVPIPEHIDIYHLTREMP PSDKTPLHCVMEVDTERAMLE KEAERLAHEDAECCKLMELYE RLEELDADKAEMRASRILHGLG FTPAMQRKKLKDFSGGWRMR VALARALFIRPFMILLDEPTNH LDLDACVWLEELKTFKRILVL VSHSQDFLNGVCTNIIHMHNKK LKYYTGNYDQYVKTRLELEEN QMKRFHWEQDQIAHMKNYIAR FGHGSAKLARQAQSKEKTLQK MMASGLTERVVSDKTLSEFYFPP CGKIPPPVIMVQNVSEKYTKDG PCIYNNLEFGIDLDTRVALVGP NGAGKSTLLKLLTGELLPTDG MIRKHSVHKIGRYHQHLQEQL DLDLSPLEYMMKCYPEIKEKEE MRKIIIGRYGLTGKQQVSPIRNL SDGQKCRVCLAWLAWQNPHM LFLDEPTNHLDIETIDALADAIN EFEGGMMLVSHDFRLIQQVAQ EIWVCEKQTITKWPGDILAYK EHLKSKLVDIEEPQLTKELPTTC
11413	41781	A	11481	194	418	YGLASVSPTQISSSSCNPWMFE GGTLVGGDWIGSHDSEGVLTR SGCLISVWHFSCAVSPATL*RRCL LLLLRLPP
11414	41782	A	11482	1	675	
11415	41783	A	11483	1	1125	
11416	41784	A	11484	1	711	
11417	41785	A	11485	673	796	
11418	41786	A	11486	3	570	RLQEFGTRNRHLPVNSPKLTNT KGKRRGTR\YMF\SRPFRKHGV VPLATYMRIYKKGDIVDIKGM GTVQKGMPHKCYHGKTGRVY N\VTQHA\VMGIVVYKQA*GQR FLPKRI*CCVIEHI\KHS\KSRDSF \LK\RVKENDQKKKEAKE\KGT WVQL\NRQLAPPREAHFVRTN G\KEPGACWNPIPYEFHGHNR
11419	41787	A	11487	1	2091	
11420	41788	A	11488	1	2208	
11421	41789	A	11489	430	1032	

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11422	41790	A	11490	3	1158	EDQIDRLDFIRNQMNLLTLDVK KKIKEVTEEVANKVSCAMTDEI CRLSVLVDEFCSFHPNPDVLKI YKSELNKHIEDGMGRNLADRC TDEVNALVLQTQQEIIENLKPLL PAGIQDKLHTLIPCKKFDLSYNL NYHKLCSDFQEDIVFRFSLGWS SLVHRFLGPRNAQRVLLGLSEPI FQLPRSLASTPTAPTTPATPDNA SQEELMITLVTGLASVTSRT\SM GIIIVGGVIWKTIGWKLLSVSLT MYGALYLYERLSWTTHAKERA FKQQFVNYATEKLRMIVSSTSA NCSHQVKQIATTFARLCQQV DITQKQLEEEIARLPKEIDQLEKI QNNSKLLRNKAVQLENELENF TKQFLPSSNEGSVTIEIALVTLIG GNRNL
11423	41791	A	11491	132	381	SKAESVFPPTLPRQRPAAAAGP HWGAG*GQDEAGLHPGPEDRG FLRETPADPGLQAGLGQVHPPR SRADPPAPYQVPPRMGT
11424	41792	B	11492	129	470	

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11425	41793	A	11493	1	1955	FVSCQAPWSHPPAQLSPVGADA MTLTLSVLICLGLSVGPRTCVQ AGTLPKPTLWAEPASVIARGKP VTLCWCQGPLETEEYRLDKEGLP WARKRQNPLEPGAKAKFHIPST VYDSAGRYRCYYETPAGWSEP SDPLELVATGFYAEPTLLALPSP VVASGGNVTLQCDTLDGLLTF VLVEEEQKLPRTLYSQKLPKGP SQALFPVGPVTPSCRWRFRYY YYRKNPQVWSNPSDLLEILVPG VSRKPSLLIPQGSVVARGGSLTL QCRSDVGYDIFVLYKEGEHDL VQSGGQQPQAGLSQANFTLGP VSRSHGGQYRCYGAHNLSRW SAPSDPLDILIAGLIPDIPALSVQ PGPKVASGENVTLLCQSWHQID TFFLTKEGAAHPPLCLKSKYQS YRHQAEFSMPVTSAQGGTYR CYSAIRSYPYLLSSPSYPQELVV SGPSGDPSLSPTGSTPTPGPEDQ PLTPTGLDPQSGGLGRHLGVVTG VSVAFVLLLFLLLFLLLRHRHQ SKHRTSAHFYRPAGAAGPEPKD QGLQKRASPVADIQEEILNAAV KDTQPKDGVEMDARAAASEAP QDVTYAQLHSLTLRREATEPPP S\QEREPPAEPSIYAPLAHLAHG GPRSHTQQKETQRLQKARELPP VDTNEPQPAWDP

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11426	41794	A	11494	22	1991	GLIPLQSAGSPEGDAMTPALTA LLCLGLSLGPRTRVQAGFPKP TLWAEPGSVISWGSPTIWCQG SLEAQEYQLDKEGSPEPLDRNN PLEPKNKARFSIPSMQHHAGR YRCHYYSSAGWSEPSDPLELV MTGAYSKPTLSALPSPVVASGG NMTLRCSQKRYHHFVLMKEG EHQLPRTLDSQQLHSGGFQALF PVGPNPSHRWRFTCYYYMN TPRVWSHPSDPLEILPSGVSRKP SLLTLQGPVLAPGQSLTLQCGS DVGYDRFVLYKEGERDFLQRP GQQPQAGLSQANFTLGPVSPSN GGQYRCYGAHNLSSEWSAPSD PLNILMAGQIYDTVLSAQPGP TVASGENVTLLCQSWWQFDTF LLTKEGAAHPPLRLRSMYGAH KYQAEFPMSPVTSAHAGTYRC YGSRSSNPYLLSHPSPELVLVS GHSGGSSLPPTGPPSTPGLGRYL EVLIGVSVAFVLLLFLLLFLLR RQRHSHRTSGLRLCPSSPRPE K\ADFQRPAGAAETEPKDRGLL RRSSPAADVQEENLYAAVKDT QSEDGVEIYTRQSPHDEDPQAV TYAEVKHSRPRREMASPPSPLS GEFLDTKDRQAEEDRQMDTEA AASEAPQDVTYAQLHSLTLRRE ATEPPPSQEGPSPAVPSIYATLAI
11427	41795	A	11495	1	1818	
11428	41796	A	11496	3	574	IRCSSVDPRVRPRVRGASGAAA YCCRHVSI PRDHTTHNQSRKW HRNGIKKPRSQRYESLKGVDPK FLRNMRFAKKHNTKGLKKMQ ANN\AKAMSARAEAIKALVKP KEVKPKIPKGGQPINLIRLAYIA HP\KLGRARARI\AKGLKLCRP K\AKAKAKAKAQDTKAQAA APASVPAQAPKRTQAPTKASE
11429	41797	B	11497	45	331	
11430	41798	A	11498	1	1779	
11431	41799	A	11499	1	837	

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11432	41800	A	11500	3	557	ERGYSFTTTAERDIVRDIKEKLC YVA\LDFEQEMATAASSSSLEES YE\LPDGGVITIGNE\RFRCPREAL FQPSFLGMESCGIHETT\NSIM K\CDVDIRKDLYANTVLSGGTT M\YPGFADRMQKEITALAPSTM KIKIIPPERKYSVWIGGSILAS LSTF\QQMWISKQEYD\ESGPSI\ VHRKCF
11433	41801	A	11501	1	1188	
11434	41802	A	11502	1	684	
11435	41803	A	11503	1	1398	
11436	41804	A	11504	22	1239	
11437	41805	A	11505	837	971	
11438	41806	C	11506	1	3018	
11439	41807	A	11507	23	368	
11440	41808	A	11508	1	816	
11441	41809	A	11509	1	441	
11442	41810	A	11510	195	293	IKVSPSGRDPVRDN*ITW*FLPY CSSTTGSLH
11443	41811	A	11511	56	372	MELPASPALFARTPQPLGGRW DWAPWSRGWRSSRLGPHRSP RRGSEAQA WRAAGPEPCPAGR QLRPVNIEWLFALILTHTFGTFQ VLA*TSQALI*NPRVLYPD
11444	41812	B	11512	108	326	
11445	41813	A	11513	3	326	GSKKKFH*HSRILERSRSWRTS YQGRPQEPSWLHPVDPHRGCR WSCLPVPCRAPSTPQPLGGRWD WAPWSRGRRLSGRLGPHRSPR NRGRLRHGGLQVPSRASQEGS
11446	41814	A	11514	3	619	VRDIHGSPTHHRPGGLRGKNGF VGEARDPRYRSGHCFRECRTO ALVAFT*C*SCGFTEVKN*GLSC LPAGQGS GPAARHV*ASHPLHG LPCGPSLP/NRAPPTPRRPVPST TQGLRNASARRGTGRQLHLQP WCGIH*VKPAGLLSLLHGQAC GDPATPSRERLSQPAVPTALGS RRRLLGPAGSPGSSLPPSRQPP GRRRRPP
11447	41815	B	11515	1	1524	
11448	41816	A	11516	1	1365	
11449	41817	B	11517	1	654	
11450	41818	B	11518	1	795	

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11451	41819	A	11519	486	929	QKQEESWPEDTYPRALAAFP GRARDLQPAMPEPPTLSMGSC APEPPRGAPPPAPRRRIPSTTQG LRSSGAGRRTCRQLHLQPRCRI HWVKPAGLLSLWLFQMHSASC WWNYHSGAWRMVALFSWLH* ECPSGESGAPILHFPFALP
11452	41820	A	11520	35	473	VLQLRRHVWSCSFPPGVVSL ALAVKLQTFVTQEPSWLHPVD PAPGLQVELPASPLQCTRSTSQPL GGRWDWAPWSRGRSSGRLGP HRSPWRG*EAQAWRAAGPEP/ WPRGKA/C*GPARNRAKRRFP CTF*EEVTVCSPQKRGGD
11453	41821	A	11521	23	229	RSWNPQTLFVGMYNATAAWK PI*QFLKKLNMKLP*DPGREPLN QTG*KGKRGGQEAFLKGISSR MSQ
11454	41822	B	11522	152	901	
11455	41823	A	11523	1	3063	
11456	41824	A	11524	242	263	VLQLIKAVWTQRTQEPSWLHP VDPALGLQVELPASPACTP QPLG\PLLPLWRHLRSPSVH HCTVGAPFWAGQGRSPLPQRR CALFLAGP
11457	41825	A	11525	1584	2082	QRAGSPHSPRSLVPPLPGLPLW RHLRSPSAHRCTMGAPFWAGQ GHSRLPQLAGRRGGRGASGNR CCVQRLQASWSSRWAWAWRA PHSEQPAGPAGPGQ*GTWHPG QRLQRMWVWLQQCRLTGAVL DFSPGLSCLPAGQSGSPAARHA *AFHPLHGLLCGRSLPD
11458	41826	A	11526	1293	1558	CIQHCHHCCCYRCRASAAGAA SLQGSTHVRIQH\CTP\CPVLLTP SVRLRDVCTRSIWPLVVTGLPS AMNVSSWCSTSSPAFGVLVLWI
11459	41827	B	11527	179	1031	
11460	41828	A	11529	1	342	
11461	41829	A	11530	1	3081	
11462	41830	A	11531	1	371	
11463	41831	A	11532	1	501	
11464	41832	A	11533	1	836	
11465	41833	A	11534	88	573	
11466	41834	A	11535	1	675	
11467	41835	A	11536	1239	1556	FLSLPTFLFVIFSGEEELLVLALV FLSLFFFFFFLRWSFAVVAQAV\ VQWHNLSSLPGFKQFSCLSLP SSWDYRCPPPRPANFCIFTRDG VSPCCPGWSRTSDLR

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11468	41836	A	11537	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPVEKALRDA KLDKSQIHDIVLVGGSTRIPKIQ KLLQDFYEAVAYGA AVQAAIL SGDKS\ENV\QDLLSL\DVTPFP LGIETAGG\VMTPH
11469	41837	A	11538	2	295	NRMGNHFIAEFKRKHKKDISEN KRAVRRLRTACERAKRTL/SSST QASIEIDSLYEGIDFYTSITRAPF EELNAWGISWWWLPPPVGAS SGPTIEVD
11470	41838	A	11539	1	1659	
11471	41839	A	11540	1	810	AGKPHCGGEFCTPNVHHFFR*F *ANPKRTII/ENKEALTPPTV/C* RAKPTLSSAPRAVI/EIDSS*/E/GI GLYTSITPPRFEELNADLFLAPL TPVEKALRNA\KLDKSQIHDIVL V\GGSTRIPKIQSFLQDF\NGKE LNKSINPDEAVAYGA AVQAAIL SGDKSENVQDLLLDVTPLSLG IETAGGVMTVLIKRNTTIPTKQT QTFTTYSN\NPGVLIQVYEGER AMTKDNNLLGKFELTGMPGG MPGGFPGGGAPPSGGASSGPTI EEVD
11472	41840	B	11541	848	2399	
11473	41841	A	11542	1	876	
11474	41842	A	11543	16	1203	SIPHEPWPVSLLLFQEQVPGKK ELRKGLALLEAHSICGLDKVL KEKRKLFIHSMGEGTINGLLDE LLQTRVLNQEEMEKVKRENAT VMDKTRALIDSVIPKGAQACQI CITYICEEDSYLAETLGLSADQT SGNYLNMQDSQGVLSFPAPQ AVQDNPAMPTSSGSEGNVKLC SLEEAQRIWEQKSAEIYPIMDK SS\RT\RV\ALICNEEFDSIPRRTG AEVDITGMTMLLQNLGYSVDV KKNLTASDMTTELEAFHRPE HKTS DSTFLVFM SHGIREGICG KKHSEQVPDILQLNAIFNMLNT KNCPSLKDKPKVIIIQACRGDSP GVVWFKDSVGVSGNLSLPTTE EFEDDAIKKAHIEKDFIAFCST PDNVSWRHPTMGSVFIGRLIEH
11475	41843	A	11544	2	654	
11476	41844	A	11545	3	291	LIPPLLRPLVQSGGIPEMGKFMK PGKVVLVLAGRYSGRKA VIVAR YSVDIPLDKTVVNKDVFRDPAL KRKARREAKVKFEERYKTGKN KWFFQKLRF

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11477	41845	A	11546	157	386	
11478	41846	A	11547	2	531	FWQESASGHLWLSGFLSGPFSL LSAEMGKFMKPGKVVLVLAGR YSGRKAIVVKNIDDTSDRPYS HALVAGIDRYPRKVTAAMGKK KIAKRSKI KSFVKVYNYNHLM TRYSDIPLDKTVVNKDGF TDPAALKRNARMEA\KV KFEERYKTGKNK WFF\Q KLRVLDAFVLII KNYKE
11479	41847	A	11548	1	414	LGGLKGTWGETKPAMAA EEEE DGGPEGPNRERGGAGAT KTLL YTGNHLFSPQWLETRP ERQECPVCKAGISR EKVVV\LYGRGS/QRSPQ DPRIKNSPRPPGGRGPA PE\SRGGSQP\F GDTGGFHF\SFGVGA FPFGFFTTVF\NA HEPFRRTGVDLG\QGH PSLQLGKEFPLPGFSA IFFLFWL
11480	41848	A	11549	1	654	
11481	41849	A	11550	3	663	RGQEVVSGLLGRVYV YLGGLKGTWGETKPAM ASAEED\SGAPN VPNRERGGAGRPKTP FECNICLETAREAVV SVCGLHYCWPC LHQWLETR\PERQ ECPVCKAGISREK VVV\LYGRGS/QR SPQDPRIKNSPRPP GGRGPAPE\SRGGS QP\FGDTGGFHF\S FGVGAFPFGFFTT VF\NAHEPFRRTG VDLG\QGHPSLQL GKEFPLPGFSAIF FLFWL
11482	41850	A	11551	3	369	
11483	41851	A	11552	375	851	
11484	41852	A	11553	1	927	
11485	41853	A	11554	104	845	

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11486	41854	A	11555	200	1496	ETIQAVVFMSLHFLYYCSEPTL DVKIAFCQGFQDKQVDVSYIAKH YNMSKSKVDNQFYSEVGDST FTVLKRYQNLKPIGSGAQQGIVC AAFDAVLDRNVAIKKLSRPFQ NQTHAKRAYRELVLKMCVNH KNIISLLNVFTPQKTLLEEFQDVY LVMELMDANLCQVIQMELDHE RMSYLLYQMLCGIKHLHSAGII HRDLKPSNIVVKSDCTLKILDF GLARTAGTSFMMTPYVVTRY RAPEVILGMGYKENVDIWSVG CIMGEMVRHKILFPGRDYIDQW NKVIEQLGTPCEFMKKLQPTV RNYVENRPKYAGLTFPKLFPDS LFPADSEHNKLKASQARDLLSK MLVIDPAKRISVDDALQHPYIN VWYDPAEVEAPPPQIYDKQLD EREHTIEWKELIYKEVMDSVEE KT*KWC*LKGQSPSAQVQQ
11487	41855	B	11556	56	1564	
11488	41856	A	11557	1	970	
11489	41857	A	11558	1	903	
11490	41858	A	11559	237	479	PVGTNTECEIPFQPMETGHSSR VDASGYK*PCLLCVYSRGKTA GECTLF*VHHFLSSLCPVNLGA NNQLHYIPWFSTDG
11491	41859	A	11560	1	477	
11492	41860	A	11561	125	1133	
11493	41861	A	11562	1	837	
11494	41862	A	11563	2	708	CQHYKFRYHQGGEGQEEPLN PHGAARAEVYLRKCTFDMFNF LASQHRVLPAGATCDEEEDVQ LRSTRATSLELPMAMRFRHLK KTSKEAVGVYRSAIHGRGLFCK RNIDAGEMVIEYSGIVIRSVLTD MRKKFYDGKGIG\CYMFMSDD FDVVDATMHGNAARFINHSCE PNCFSGVIPGGGPENKIVIFGLR RILGGEEVNLRTKKFPIE\DAK\N KLPC\NCGAKRCRRFLN
11495	41863	A	11564	2	136	
11496	41864	A	11565	1	551	AIFYAKRASVFKLQKPNAAIR DCDRAIEINPDQAQPYKWRGKA H/RAQKIAEHRRKYERKREEREI KERIERVKKAREEHERAQREEE ARRQSGAQYGSFPGGFPGGMP GNFPGGIPGMGGMPGMAGM PGLNEILSDPEVLAAMQDPEVM VAFQDVAQNPNANMSKYQSNPK VMNLISKLSAKK

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11497	41865	A	11566	1	804	
11498	41866	A	11567	64	1215	PPSFAHHLPTMDPRKVNELRAF VKMCKQDPSVLYTEEMRFLRE WVESIGGKVPPATQKAISEENT KEEKPDSSKKVEEDLKADEPSSE ESDLEIDKEGVIEPDTDAPQEM GDENAEITEEMMDQANDKKVA AIEALNDGELQKAIDLFTDAIKL NPRLAILYAKRASVFKLQKPN AAIRDCDRAIEINPDSAQPYKW RGKAHRL\LGHWEEAAHDLAL ACKLDYDEDASAMLKEVQPRA QKIAEHRRKYERKREEREIKERI ERVKKAREEHERAQREVEEARR QSG\AQYGSFPGGFLGG\MPGN FP\GG\MPGMGGG\MPGMG\GM PGLNEILSDPEVLAAMQDPEVM VAFQDVAQNPA\NMSKYQSNP K\VMNLISKLSAKFGGQA
11499	41867	A	11568	1	265	VKAKIQDKEGIPPDQQRILFAG KQLEDGRTLSDYNIQKESTLHL VLRLRGGIIEPSLRQLAQKYNC DKMICR/KKCGHTNNLRPKKK
11500	41868	A	11569	3	318	
11501	41869	A	11570	7	57	RFFNFLGGIP/P*SGPKGMTL/DQ TQGSKSKQIQWPALTFKPLVER NIPSSVTAVEFLVDKQLDFLTE DSAFQPYQVRNFRLLFKIKG*L NFIDIQTFFKQYSLNISSNF*LC EKPNECSQLILLIG*TVY*FFNFL GGIPLNLGQKE
11502	41870	A	11571	1	2109	
11503	41871	A	11572	50	251	
11504	41872	A	11573	1	1922	
11505	41873	A	11574	2	479	
11506	41874	A	11575	1	909	LILTSVLLFQRHGYCTLGEAFN RLDFSSAIQDIRTFNYVVKLLQL IAKSQTSLSGVAQKNYFNILD KIVQKVLDDHHNPRLIKDLLQD LSSTLCILIRGVGKSVLVGNINI WICRLETILAWQQQLQDLQMT KQVNNGLTSLDLPLHMLTNILY RFS DGWDIITLGQVTP\TLYML SEDRQLWKKLCQYHFAEKQFC RHLILSEKGHIEWEVCNCFATF RKHYPKEQYGRQHCIFCRHCS ILFWKDSGHP\CTAADPDSCFTP \VSSQQFIALFQVLRAAPCHPY WRFVNPAVCAGLIVSVL
11507	41875	A	11576	1	1035	

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11508	41876	A	11577	63	606	FAKNERTQRGKRRG\TRYMF SR PF\RK\HG VVPLGPHICR\YRK G DIVDTQGN GVLFFKKGMPHKCY PWPKLEGVLQLLPQHA\VAIVV NQPVLGQSFFPRE*IVRIEHIKH SKSPR*ASLK/RVLKENDSEKER SPNEKGTWGSNLKRHLAPPQK KHTL*RTNGKEPEL\LEPIPYEFH GHNRC
11509	41877	A	11578	1	490	
11510	41878	A	11579	150	536	NCKISFLHFCYIFVKALKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQLKR/QGKNLVYISLVLA L*G*DLTHHIIILFPFFFL**PAPP REAHFVRTNGKEPELL
11511	41879	A	11580	336	476	GMGT VQKGMPHKCYHGKTGR VYNVTQH AVGIVVNKQVK*VV LCG
11512	41880	A	11581	1	626	WAFRPEPPSSSKFAQNDGPQRG KRRGT\RYMF\SRPF*ENHG VVP LAHIFMR\YK\KGDIVRHPRGM GYCSKKGMPPTSCYPWQKLGR V\YNVTPAMLF GIVCKQTKLKG ND SLPRG/ILMWRI*AHLRHF*G ARD/RASLKTCGRENGSRKKER KPKGKGV TWGFQLKRRHLGFP PQEEATFLLKEPIGGREP*ACLE PYFPYWISWGINRC
11513	41881	A	11582	499	723	
11514	41882	A	11583	96	411	PAPTSRCRRRRAPLPKKKAEGD AKGNKAKVKDEPQRRSARLS\A KPAPPKPEPKPKKAPAKKGEKV PKGKKGKAD\AGKEGE*PLQKN GDAKTDQAQKA\EGA\GDAK
11515	41883	A	11584	3	493	
11516	41884	A	11585	588	759	GEGCGWAEVGRCPGPPDPAG PAGAAGP\GAARGGLFRGVLSP SSRCGGGSSSSRSGR
11517	41885	A	11586	213	626	
11518	41886	A	11587	1	645	
11519	41887	A	11588	1	739	
11520	41888	A	11589	327	676	NPNPSWNLAHVWMDMRK*EQ RGIQ/V**SNINKS*KEKMSMQC LEMPRNPDH*GRIDVSFQNLMR LTR*SQMGYLPWDLKQELETFS KLS*KQVMLS VVVTFVRNMLQ LRFLTSFSG
11521	41889	A	11590	11	328	

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11522	41890	A	11591	1	378	LFIVTVCPAFLRFSSAICDSFLIC PQVGCGVRRVLLVTVGVLSSIS LDMAATGVSLGSSWSLFLGIW LMIRFQVS*WYPNWLLILSWRN ISITSTPSYYFTYFPTFCYQISPPN QLFCFCLCSWFL
11523	41891	A	11592	1	780	
11524	41892	A	11593	1	1461	MVTLMGHAALCLHYVMQLGT TGGAWYFPRASSQAREMPQCP TLESQEGENSEEEKGDSSKEDPK ETVALAFVRENPGAQNGLQNA QQQGKKRKKRKKRIIISGKVLSD FLALAMHFADEETGQKRCSLN QTIQLLITPDTGSIWHQAFLLSIV RRAAQQYGFREGGEDDDWTL YWTDYSVSLERVMEMKSYQKI NHFPGMSEICRKDLLARNMSR MLKMFPKDFRFFPRTWCLPADP AQLDLWSQTFWPRPTAPDGT GADGLGLRLGSLGK/VSFWFPA CHGLG*PEASYTAS/MACGSLP/ WKLSTFSAYLEDHSYNVEQIW RDIEDVVIKTLISAHPHRYHT CFPNHTLNSACFEILGFDILLDH KLKPWLETEKMQTAGALFISP ALPSYSNFPLQVARREFQTSVV SRDIDTAAKFIGAGAATVGVAG SRAGIGTVFGSLIIGYARNPSLK QQLFSYAILGFALSEAMGLFCL MVAFLILFAM
11525	41893	A	11594	1	2301	
11526	41894	A	11595	3	381	
11527	41895	A	11596	1	729	
11528	41896	A	11597	1	1006	MVKVKARVNEFGYTGCLVTRA AFNSGKVDIVAINDPFIDLNLYLA YMLQYDSTHGKFHGTIKAENG KL VINGNPITIFQE*DPTKIKWG DAGTEYVVESTSIFTAMEKVGA HLQRGAKRVMIFAPSTEAIMFM MKVNYEKYDNSLKIISNASCTT NCLAPLAKVIHDNSGIVERLMI TVHVITTTQKTVDGPCRKLRPD GHRALQNIIPASTSTAKAMVKV IPELNKKLTGMASHVPTAKVLV VDPTCHL/EKPAKYDIDKMM KQASEDPIKGILGYTEHQIVSSD FNSDTQSSTFDAGAGITLNDHF VKLISWYDNEFGYSNRVVDLM AHMASKE
11529	41897	A	11598	3	508	
11530	41898	B	11599	1	5068	

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11531	41899	A	11600	58	659	PVATTCECIFIHLGEADVWIGN AA/WELYYLEQSIQHDSMPSPD KTTG*GDN*FYASS\GAGKFVS RAVFINLEPIVTDEVCTGTYHQ LFHPEQLITDKEDAAHNYAWG HHDIGKIIGCYSTNKTCTIQFV DWCFTSLKVGINCQLPTVVPAG NLANIKRAACMLSNTIAIAEAW VCLGHKSDLSYANCSFVHQFFN KSIH
11532	41900	A	11601	511	1173	
11533	41901	A	11602	3	497	WCDGPQNRYALICQQC/YSHNG MALKEEFYIAFRCA YCFFLNP ARKTRPQAPRLPEFSFEKRQVV EGSSSVGPLPSGVLSSDNQFNE ESLEHDLDDNTEQTDDKIPAT EQTNQVIEKASDSEEPKQET ENEEASVIETNSTVPGADSIPDP ELSGESLTAE
11534	41902	A	11603	2	764	
11535	41903	A	11604	1	444	
11536	41904	B	11605	44	1748	
11537	41905	B	11606	1	1134	
11538	41906	A	11607	1	549	
11539	41907	A	11608	212	548	
11540	41908	A	11609	1	905	ESVAAAAARAFPFTAPKELERQQ RRRFRFHHLFLFPSLRTPCRVSV SLQPWLWKATEVMAMFEQMR ANVGKLLKGIDRYNPENLATLE R\YVETQ\AKENAYDLEPNLAV LKLYQFNPAFFQTTVTAQILLK ALTNLPHTDFTLCKCMIDQATI QERNGPDPQIFVPSGTLLEDPA HFPGPFWQTPGNRACQKAWD ENHWTLFGKVL\GF*RLLVRK FIC\HVVG YHLPSHIDR\WLLAE MLGDL\SDKPAKRCWMSKIRLR EDDRRGQIF\ICS\QE*EHLNPRN\ IVEKIDFDSVSSIMASSQ
11541	41909	A	11610	186	209	QLWPN*LLSRNKEATLRYSQLP TCHSICY*MPAF*HTISDLSFNK NINCKSYHLRVFYKYV*IVCHF *VPKVYWTKYYQTSCT*WR* SGVE*PPISSSSSACLLRRLPT EGTCPEIFWNPRLGISAECRDSC GPTSF
11542	41910	A	11611	2	2948	
11543	41911	B	11612	1	999	
11544	41912	A	11613	1	657	
11545	41913	A	11614	1	707	
11546	41914	A	11615	1	297	

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11547	41915	A	11616	1	1287	
11548	41916	A	11617	242	540	LTNEKKVQDQMDSQPNSTRGT RRSLYPFLLKLFQLEKEGILPNS FYEASIIIPKPGRDTTTTKKEF* TNIPDEHRCKNPQ*NTSKPNPA AHPKAYPP
11549	41917	A	11618	193	916	
11550	41918	A	11619	1	2169	
11551	41919	A	11620	1	615	
11552	41920	A	11621	39	568	NSAWARRPLVPLMSLVSPWK SSQHIFRVLNPPNLDGRRKNSP LPITCHLRVWARRYAHVVLRK AD\IDLT\K\RAGEL\TEDEVERVI TILQ\NPRQYKIPD\WFLNRQKD VKDGKYSQVLANGLDNKLRED L\ERLKEDSAPIEGLRH\FWGLR\ VRGQHTQDQLGRRGRHRGASA GARR
11553	41921	A	11622	1	378	
11554	41922	A	11623	1	222	
11555	41923	A	11624	2	367	
11556	41924	A	11625	2	376	QTYSLRRATPRHIIVGFTKVM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
11557	41925	A	11626	1	633	
11558	41926	A	11627	164	714	IGVNRHLIQESPSWNLGAPLE QIFQRKEQAAIFAILQPLLVISRQ TGSGVDPQQTPADLQK/SGSDS REQNKTENEFDELTEIGCRRWV ITNSSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
11559	41927	A	11628	504	936	TESSSININKKDDHAKTP\PKDH NSSPAREQNKTENEFDELTEIGC RRWVITNSSELKEHVVTQCKEA KNLEKMLQELLTRITSLEKNIN DLMEKNTAQELREAYTIINSQ TDQAEERISEIEDQLNEIKGEDN IREKTVKRIE

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11560	41928	A	11629	1949	3232	PGKQDLEWTSSKLQQTCTRRGT LLVEGKLTNRKE*HQQKQLR PHGNLIQRDHNCSPARE\QNWM ENEFDKLTEVGFRRTITNSSK LKERVLTQCKEATNLAKRLEK LLTRITSLEKNKNDLMELKNTA QELREAYTSISGRINQAEQRTSE IEDQLNEIKRRGVSVCPQPS EDT PRSTARVPKGMVPRPRVPLVT PPREKKEAPWLACLRTRALRILI DPPSQVWDIVSCDAENETKLEN TLQDIIQENFPNLARQAN\VQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEK\MLRAAREK\GQVT HKAKPIRLTADLSAENLQAR/R TEWGPIFNILKEKNF\QPRISYPA K\LSFISEGEIKYFTDKQMLRDF\ VTTRPALK\ELLKEALN\MERD N\RYQP\LQNHAKFVKTIAREE TCINLMCQITS
11561	41929	A	11630	1	421	
11562	41930	A	11631	2	415	
11563	41931	A	11632	59	492	GHIGVRPSLHPVTSTTSGNVSP LARAMASISELACVYLALILHD DEVIIMEVNINTLIKAASVNVE/ PFWPGLFGKALANVNIGSLICN VGAGGPALAAGAAPAGGPAPSI AAASAEKKMEAKKEESEESD DDMGFGLFTKPVL
11564	41932	A	11633	100	527	PPRTGQRQPLHSARRHGSPVS\E LAC\YSALISARTDEVTVTEDK INALIKSSPL*MLSPFWPWLCLQ RPLA\NVNIGSL\ICNVRGPVEPA ASQPGA\GPARKVLAPSTAAAP S*RRRKLEAKKRKNPKEVLNDE HGLLVFLN
11565	41933	A	11634	1	675	
11566	41934	A	11635	1	1032	

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11567	41935	A	11636	3	976	HEAKHQMADDAGGS/AGGPEG PGGPWDGKTPLLSGEVFGIVIR GRGSRP/RGRGRGR\GRGARGG KGPRIK/WIGMPVHQVGAALVK DH*RSKFPWKEIYLFSLPIKGIK DS*FSFLAGPLSKDEGFGLCPV QKQTRAGQAQQVSRPFVAIGG LQMAHVGSGVLSAPKE\ATG HPVGAILAKLSIRPRAQKGIWG TKYWQSPNTVP\CKV\TGRCGF VVVRLIP\APRGSGIVSAPVA\K KLLMMAGIDDCYTSAPGCTAT LG\NFAKGHPLIAIFK\TYKLP*P PDLWK\ETVFTKV\PYQ\FTNDH LVKDPHPRESSVQRDLRLQLVAT
11568	41936	C	11637	279	322	
11569	41937	A	11638	1	107	
11570	41938	C	11639	69	134	
11571	41939	B	11640	223	950	
11572	41940	B	11641	1	684	
11573	41941	A	11642	1	564	EFGTRDNRVLLPLVNPTVFFDI AVD/GVYPLGRVSFELFADKVP KTAENFRALSTGEKGF\YKGS\ CFHRLFP\GFM\CQGW*L*SHHN GT\GGKSHLWGRNLKDENFIL KHTGPGILSMANAG\PTNGSP VFLTSCTA\KTE\WLDGKH\AGL GKVKEGMNIVEAMER\FGSRN GKTSKKIISIA\DCGTTSN
11574	41942	A	11643	1	877	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIQAAFREPRLLVVDPR DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHSVGLMW WMLAREVLRMRGTISRHPWE VMPDLYFYRDPEEIEKEEQAAA EKA\VTKEEFQGEWTAPAPEFTA TQPEVADLSEGQVQVSPVIQF PTDDWSTQPATENWSAAPTAQ ATEWVGATDWS
11575	41943	A	11644	1	1674	

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11576	41944	A	11645	1	1121	MLEAVLEESPREEAFFSWVMK GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQMKEEDVL KFLAA\GTH\GGTNLDFQMEQ YIYKRKSDGIYIINLKRTWEKLL \LAA\RAIVAIENPADVSVISSRN TGPEGLCLKFAA\ATGATPIAG\ RFTPG\FTTNQIQ\AAFREATGF LVVTWTPGLD\HQPLTEA\SYV YLPTIA\LCNTDS\PL\RYVDIAIP CNNKGAHSVGLMW\WML\ARE VLRMRGVTISREHPWE\VMFDL YFYRDPEEIEKEEQAAA EKA VT KEEFQGEWTAPAPEFTATQPEV ADWSEGVQVPSVPIQQFPTED WSAQPATEDWSAAPTAQATE WVGATTDWS
11577	41945	A	11648	1	396	
11578	41946	A	11649	1	567	
11579	41947	A	11650	1	226	
11580	41948	A	11651	3	377	
11581	41949	A	11652	19	450	PDRRWSSLDTMNHTGQTFSPV NSGQPPNYEMLKEEHEVAVLG APHNPAPPTSTVIHRSSETSPD HVWWSLFNTLFMNPCLGFI AF AYSVKSRDRKMVGDTVGAQA YASTAK\ALNIWALILGILMTIL LIVIPGLIFQAYG
11582	41950	A	11653	210	2206	
11583	41951	A	11654	450	644	SLRLWVTERTAVTNLPSSSRGV GDKPPVGSPLFLSLVAFNPL QSTRNPASASQPQ\PCSAEQPAR RG*AEPA LR TVLP IHAEMWLPR LHEFEEHRLVHRCFTLTFVDET DHCAVLPRGAGSGGGGFERIL SQSPGSLWESC*PGLWLNILSNP PPCPLPAPLGRTAQ
11584	41952	A	11655	66	157	RGTWSHIA*KSQGISWDRFEEVT LCREPFT
11585	41953	A	11656	1	2538	
11586	41954	B	11657	68	1602	
11587	41955	B	11658	1	1464	
11588	41956	A	11659	587	1081	ILSWLTLWSILRLYIVTLTGKIC SLTSEASEATSPPRGTNNSRVA LAVVTLVWRVCSFIFDSKAFIL AFAFFFSHWFSILPFPQHGATL WYFWGDFECSRGRPNHTDDR ARLVPMTERGGPPQGGEPART RSPRQGGRGGMEGGE*YPCPPH LGGQERKPG

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11589	41957	A	11660	180	583	YTEVLKGPDGAENHGTRTT** MHKPH*PIRSTGRKADKQLQQS LR\NKINVQKSQAFLYTNNRQT ESQIMSELPFTIASKRIKYLGIQL TMDVKDLFKENYKPLLKEIRG YKQMGEHSMLMGRKNQYSEN GHTAQ
11590	41958	A	11661	82	159	
11591	41959	A	11662	2	1008	NAAPLQQRNKAGCR/YDLDEL REEGFRRSNFFKLKAEVRTQCK ETKNLEKTLDKWLTRKTSVEK SLNDLMELKTMVQGLRDKCTN FSNGFDQLEERVSVIEEQMNEM KQEKKYREKKDRSMTQKVNK DIQELDSALHQEELIDIYRTVHP KSTEYTFFSAPHRITYFKIDHIVG SKALLSKCKRTEITNCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYENLWDTFKA VCR GKFRALNVHKKRQERSKIDTLI SQLKELERQELTHSKASRMQEI TKIRAEQKEKETEKNIQKNQRI QELFLLKDQQN
11592	41960	B	11663	1	1529	
11593	41961	B	11664	111	1350	
11594	41962	C	11665	1	2127	
11595	41963	B	11666	1	1350	
11596	41964	A	11667	1	1506	

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11597	41965	A	11668	1	1855	MIIIVPLYSSLGDRVKSCEKKRE RERERRKKERKKERKKERKKE RKKASSKEREGRKKERRKKL RKKEEKERKKRKKKRREGRKE RKKEKERKEGKKEERKNIPGKR RESTDPLKEMDHRCLLPEMLK GTWWTTPARASGPAVPLLCEF RQWTVDTTSVVPETHMPPGQM TQPIAPDSHNMDEAGGHYPK QTNTRPENQILHVFTDKWELNT EYKDPKKRTTDRAYLRVEAT LAADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRGRMTPHM AGYSSETKLPEERSGSSICGSPIS AVLQPPLLIQRQTGSGVDLQQT PTDLQLRVLMERSSSPATEQSW MENDFDEMDEGRFRSNYSEL KEEVQTYCKEVCGRGFKALNA HKRKQETSKIDTLTSQKLELEK QEETHSKASRRQEITKIRAELEK IETQKTLQKINESRSWFFKINK IHRPLARLIKKTENQINAIGN DKWDITNNLTEIQATIREYYKH LYANKLENLEEMDKFLDTYTL PRL*N/CRQSLIAYQKIKVQDQ MDSQSNSTRGTRRSWYHSF
11598	41966	A	11669	2678	2897	PDGAKKHGKRT\RDERTSFSEF NQLEERSVNIENQMNMKREE KFREKRVKRNEQSLQEIWDM* KDQMRSTS
11599	41967	A	11670	843	2004	NNQCREVLKGV DGAESQGSRT REERRSLRSRCDQLEERSVIED QMNEMKREGKFREKRIKRNEQ SLQEIWDYVKRPNRLRIGVPES DGENGTKLENTLQDIIQENFPN LTRQANIQIEIQRTPQRYSSRR ATPRHIVVRFTKVEMKEKMLR AAREKGRVTHKGKPIRLTADLS AGTLQARREWGPIFNILKEKNF PPRISYPAKLSFISEGEIKYFTDK QMLTIVHLKTLDIYMYNIRRPK GGEKKADQEVNSEPRNNIVLET KGDRGPQAPASPGGPPRRVRR SASGSRAGITFHPVHYLTRPF HRFHYQSHGYGVGSVQSAELR HKTNSAARAALRDGGVDCRGR ERGSACQKRSDEAGGLVLS LPRVMSGSWEVRR
11600	41968	B	11671	1	3221	

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11601	41969	A	11672	82	160	
11602	41970	A	11673	1	551	AAAMADSGTAGGAALAAPAP GPGSGGPGPRVYFQSPPGAAGE GPGGADDEGPVRRQGKVTVS YDRKELRKRL\NL\EDWIL*QLN GAFYDCQ\EEEEPELEIDVDELL D\MESD\DARAA\RVKELLVDC YKPTEAFISGLLDKIRGMQKLS TPPEEVRVPDPGRTVAPTQQSL PPDLVATAITGGT
11603	41971	A	11674	362	650	
11604	41972	A	11675	1	651	
11605	41973	A	11676	1	3101	
11606	41974	B	11677	1	2838	
11607	41975	A	11678	1326	1980	TSEASRQSERVDSAALSALLS RSSKCRPWGTARVARAGGCLT PLSRRFLETRPFTGPWDPGLG VTCWCCPPKRRLKSTPRPKFSV CVLGDQQHCDEAKAVDATFEV CLGDQVLSNANGFLSLSAKKY DAFLASESLIKQIPRILGPGLNK AGKFPSLLREEGQAICYSSNTLT *SSLPSQVLCLAVAVGHVKMT DDELVYNHILAVNFLVSLLK
11608	41976	A	11679	11	720	EAMSSKVSRTL YEAVREVLH GTQRKRRKFL\ETVELQISLKNY DPQ\KDKRF\SGT\VRLKSHSPAL SFSVCVLGD\RQH\CD\EAKA\V DIPPHGPSEAAEKTSTKNKKLV QKSWPKKV*MPFLA\SESSDQA RFPRIAPGLNKAGK\FP\SLLT HNGKHGGPKVDEVKVPQSRFQ MKKVLCLAVAVGHVKMTD\DE LVFNIHLA\VNFL\VSLLK\KNW QKCSGALYYQEAPMGQSPKRL
11609	41977	A	11680	34	507	
11610	41978	A	11681	407	806	LRVGMLQRSKANGPDDHLLG ASCTCGPSTGSPSPRLPSLPQRP QKGLLHQ/RATRMKPGNIAKGL WKRLSKGTVMKLWLLTAVPRL SGLLVCPVLVHQLLLAFKFLKRF PIFCLWFRAANRHARFSILFKLS RP
11611	41979	A	11682	1	1551	

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11612	41980	A	11683	1	751	MAGYSSETKLPEERSDSSIRGSR KSTVLQTL LLPRQTGIKKLTQN RSTTWKLNLLNDYWVHNE MKAIEIKMFFETNENKDTTYQN LWD/YIQSSV*REIYSTKCPQEK AGKIQN\DTLTSQLEKEKQEQ THSKASRRQEITKIRAEPKEIQT QKTLQKINESRSLFFKRINKIDR PLARLIKKREKNQIDAIKNEK GISPPIPQNYKLPSENTTNTSMQ IN*KI*KKWINSWHTPSQE*TR KKLNL
11613	41981	A	11684	49	551	VRATYFHHAPANCTEFVPRQL VSRAENLPQATSLPTEKASRAF RVLLIPRQTRSGVDLQQTPTDL QLRVLIVRRKTNKQKGHPHQN PICTSPLRRSNFFELKEEVTRTHG KDAKNLEKRLDKWLTRISSVE KSLNDLMELRTMA*ELCDECTS FSS*FNQLEERVSVI
11614	41982	A	11685	1	1566	MNSLLTGQIPESQIHRDSSAAT WWKKIYRQKMGNIEKSEVRG GLTPHTAGYSSETKLPEKRSGS SICGSPISAVLQPPLLIPRQTGSG VDLQQTPTDLKLRVLTVRRKS NKQKGHPHQKPICTSPLSKTKD RSTRQKVNKDIQDLNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTCSKIDHIVGSKALL/EQM*KN RNYQKLSLRPQCQNQLELRIKKL TQNHSTTWKLNLLNDYWM QKRPLKIQCFMLKTLNKLIGD GTYLKIIRAIYDKPTANIILNGQ KLEAFLKGTGRQGCPLSPLLL NVVLEVLARAIQEKEIKGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLPKLISNFSKVSQYKIN VQKSQTFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLKEIKEDTNKWK NIPCSWVGRINIVKMAILPKVIY RFNAIPIKLPMTFTELEKTTLK FIWNQKRACIAKSILSQKNKAG GITLPEFRLYTRLQ
11615	41983	A	11686	1	4962	
11616	41984	B	11687	101	3772	
11617	41985	B	11688	1	1047	
11618	41986	A	11689	21	287	

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11619	41987	A	11690	131	723	LLEGKLTNRKDIHTKNPSVRH/ RSSKTKERVVSAMEDEINEMKRE EKFREKRVKRNEQSLQEIWDL KRPNLRLIGVPESDGENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSLRRATPRHIIVRF TKVEMKEKMLRAAREKGRVT HKGKPIRLT/ADLSAETLQARRE WGPIFNILKEKNFQPRISYPAKL
11620	41988	A	11691	1	1257	
11621	41989	A	11692	1	759	
11622	41990	B	11693	107	511	
11623	41991	A	11694	170	726	LLEGKLTNRKDIHTETPSVCHH HQRPKDIIQENFPNLARQANIQIQ QEIQRTQRYSSRRATPRHIIVR FTK/VEMKEKMLRAAREKGRV THKVKPIRLTADLLAETLQARR EWGLIFNILKEKNFQPRISYPAK LSFISEGEIKYFTDKQMLRDFVT TRPALKELLKETLNVERNRYQ PLQKHAKL
11624	41992	A	11695	1	569	MAGYSSETKLPEERSGSNICCSP ISAVLQPPLIPRQTGSGVDLW QTPTDLQLRVLTVRRKINKQKG HPHQNPICSPSSKTKGQIRAE KEIETQKALQKINESRNWVFEK INKIDRPPARLIKKKREKNQIDA IKNDRGDITIDPTEIQTTIREYYK HLYANKLENLEERDKFLNTYTL PRLNQEEVESLNRPIGSEIEAII NSLPTKKSPGPDGFTDAFYQRY KEDLVPFLLKLFQSIEKDRILSN SFYEASIFLIPKLGRDTTKKEN* QTERTSTPKPHLYITHEDQRPD QSRTEGNRDTKSPSKNQ*IQEL/ WFLKRSTKL\ATSKTNKEEKRE ESNRCNKK**RGYHHRSHRNT NYHQRIL*TPCLK*TRKSGRKG* IPQHIHSPKTKPGRS
11625	41993	A	11696	3	1039	
11626	41994	C	11697	1	1251	
11627	41995	A	11698	1	807	

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11628	41996	A	11699	1	713	MNSLLTGQIPESQQIHRDSSAAT WWKKIYRQKMGNIDIEKSEVRG GLTPHTAGYSSETKLPEKRSGS SICGSPISAVLQPPLLIPRQTGSG VDLQQTPTDLKLRVLTVRRKS NKQKGHPHQKPICTSPLSKTKD RSTRQKVNKDIQDLNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTCSKIDHIVGSKALL/KQM*K NRNYQKLSLRPQCNRTRTQD*E THSKPLNYMETEQPAPE
11629	41997	A	11700	1	1768	MNLSRHLNEVKGELLWSLEWR DPDGGsirMEVGLGGWTQRLE EEKKGNVCSHGNLEKDFPYIPH LFGLQQKKMDLKGVFKSCFKI YCSSLHLLKTGFISEAVLCYGE GGEGDTVLTMKERWPHECIVLI QCNKGRLTPHTARYSSETKLPE ERSGSSICGSPISAVLQPPLLIPR QTGSGVDLQQTPTNLQLRVLT VRRKTNKQKGHPHQKPICTSPS SKTKDFKPTKIKRDEKGYHIMV KGSIQQEELTILNIYAPNTEAPR FIKQVLSDLQRDLDSHIIIMGDF NTPISTLDRSMRQKVNKDIQEL KSALQQADLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHIVGSKAL LSKCKRMEIITNCLSDHSAIKLE LRIKKLTQNRSTTWKLN NVLLN DYWVHNKMKAEIKMFFETNG NKDDTYQNLWD/YIQRSV*REI YSTKCPQEKAGRI*N*HPNI\QL KELEKQEQTTHSKVSRREQEITKIR AELKEIETQKTLQKINESRSWFF EKFNKIDRRRLARLIKKKREKNQ IDAIKNDK\GISPLIPQKYKLPSE NTINTSTQIN*KI*KKWINSSTHT
11630	41998	A	11701	535	666	KGRNIQLNGLVIGTLSN*LKCL KMFFTMPLGYINGGISSDFFLH
11631	41999	A	11702	20	262	
11632	42000	B	11703	1	1254	
11633	42001	A	11704	1	1032	
11634	42002	A	11705	481	1491	
11635	42003	A	11706	2	717	

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11636	42004	A	11707	348	1976	SRVRPVVHLRRAPMVCQGHTT PPVCGSLAGPGDCVHYSVPAG YSSETKLPEERSGSNICCSPISAV LQPQLLIPRRTGSGVDLQQTPT DLQLRVLTVRRKTNKQKGHPH QKPICMSPSSKTKGSNSHITLTL NVNGLNAPIKRHRLANWIKSQ DPSVCCIQETHLTCRDTHRIKIK GWREIYQANGKQKKAGVAILV SDKTDFKPTKIKRDKEGHYMM VKGSIQQEELTTLNIYAPNTGAP RFIKQVLRDLQRDLDSHTLIMQ DFNTPLSTLDRSTRQKVNKDIQ DLNSALHQVDLIDIYRTLHPKS TEYTFFSALHHIYSKIDHIVGSK ALLSKYKTTEITNCLSDHSAIK LELRIKLTQNRSTTWKLNLL LNDYWVHNKMKAEINTLFETN ENKDDTTYQNLWD/YIQSSV*REI HSTKCPQEKAGKI*N*HPNIQL KELEKQEQTTHSKASRRQEITKIR AKLKEIETQKILQKINESRSWFF EKINKIDRPLARPIKKKREKNQI DAIKN\EKGISPLIPQKYKLPSEN TINTSMQIN*KI*KKWINSSTHT PSQD*TRKKNL*INTSMQIN
11637	42005	A	11708	1124	1717	LLEGKLTNRKDIHTKNPSVRHH HQRPKVDKTTKMGRKQSRKTG NSKNQSASPPPKERSSSPATEQN WTENDFDELREEGFRRSNYSEL KEEVRTNAKEVKNFEEKLDEW ITRITNAEKSLKDLMEKTTAR ELRDECTSPSSQCNQLEERISAM EDKMNEMKREEKFREKRIKRRK EQSLQEIWVYVVRPNLCLIGVP
11638	42006	A	11709	1	3549	
11639	42007	B	11710	209	403	
11640	42008	A	11711	3	248	
11641	42009	A	11712	61	594	IQPLVSVLDEKPSNGVLVHMK LLIKTFLDGIFDDLMENNVLNT DEIHLIGKCLKFVVSNAENLVD DITETAQTAGKIFREHLWNSKK QLSSVHGSEHEDKALTCHWVG HPGFPEKLKERKKFCGIMVVGL FGFTTDSGKAGADIHGRFLQGN FCNDAVTKAHVEKDFIAFKSST

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11642	42010	A	11713	1	430	FSAVREDGGCYLWQIYPIKERM DRIRLVLIHCNKEFDHLPPRNGA DFAIMEMKKLLEDLGYSVDVE ENLTAR/HNVSQGETGTKGLPIF ITQLIACFQRYSWRCHL\EEVFW KVQQAFESPEATVQMPTIERVS MTRYFYLFPGN
11643	42011	A	11714	3	1195	
11644	42012	A	11715	35	1288	
11645	42013	A	11716	1	1641	
11646	42014	A	11717	1	2933	MVCSAAPLLLLATTPLLLGSPV AQASQPLWPMAGQTMWAQT STLTLTEEELGQSQAGGESGSG QLLDQENGAGESALVSYYVHL DFPDKTWPPELSRTLTLPAASA SSSPRPLLTGLRLTTECNVNHK GNFYCACLSGYQWNTSICLHYP PCQSLHNHQPCGCLVFSHPEPG YCQLLPPVPGILNLNSQLQMPG DTLSLTLHLSQEATNLSWFLRH PGSPSPILLQPGTQVSVTSSHGQ AALSVSNMSHHWAGE
11647	42015	A	11718	1	357	
11648	42016	A	11719	73	1494	KSSHCIKMGPQIFHKTSELFLPA TSCPSCPDQNEEDVSQTQYKEC CGGGWCSHSIFAVWHFI*RPDA T*FG*SSAYGFVASDQCP*GSS* LYHLWYSYSGSENKQCG*R\AA LGAGFSDKTPAHTVTMACISAN QAMTTGVGLIASGQCDVIVAG GVELMSDVPIRHSRKMRLML DLNKA KSMGQRLSLISKFRFNF LAPELPAVSEFSTSETMGHSAD RLAAAFVSRLEQDEYALRSHS LAKKAQDEGLLSDVVPFKVPG KDTVTKDNGIRPSSLEQMAKLLK PAFIKPYGTVTAANSSF/LLTDG ASAMLIMAEKALAMGYKPKA YL/RRDFMYVSQDPKD\HLLLG PTYATPKVLEKAGL\TMNDIDA FEFHEAFSG\QILANFKAMDSD WFAE\NYMG*KKPRFGLPPLWR RFNNWG\GSLSLGHFPFATGCR LVMT\AANRLREEGRASMA*V A\ACAAGGQGH\MIV\EAYPK
11649	42017	A	11720	1	642	

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11650	42018	A	11721	17	960	KSGARSLQPQFLRAPEDGGPLS LPNAAMARGPKKHLIRVAA\P KHWMLDKLTGGCA\PRHSPVP HKL\RECLPLIIF\LRNRLKYALT GDEVKKICMQRFIK\DGKV\RT *YNPTPAGFHGMSSAFDKTGEE NFPS*SIDTKGSAFA\VHPYLTTL EEGQSTSLVPKVKKRSFVGHKK GIPSSWVTS*WPATIR*PRSPSSK VN*YHFRLDLETWQRLLD\IKF \DTGN\CMGDWGGAN\LGRLN WVLITN\REHHPGSFDPWFHV\K DANGN\SFATRLSNIFVIGKGNK PWISLPRGKGIRLTIAEERDKRL AAKQSSG
11651	42019	A	11722	1	460	
11652	42020	A	11723	1	243	
11653	42021	A	11724	94	311	
11654	42022	A	11725	400	792	
11655	42023	B	11726	473	596	
11656	42024	A	11727	1	1707	
11657	42025	A	11728	3	484	
11658	42026	A	11729	122	253	
11659	42027	A	11730	1	803	RGGRGGAGAAGAELAGPLPSP APFESPGFTPPGPWGSICPAFA HALHSGTVPARSGRTMARGAA LALLFGLLGVLVAAPDGGFDL SDALPDNENKKPTAIPKKPSAG DDFDLGDAVVDGENDDRPPN PPKMPNPNPNHPSSSGSFS\DA DLADGVSGGEGKGGSDGGGSH RKEGEE\ADAPGVIPGIVGAVV VAVAGAISSFIA YQKK\KLCFK\ EN\AEQGEVDMES\HRNAQRQK PAVQ\RTLLEKIEDCPEKQPQAF GSRVRTAA
11660	42028	A	11731	335	476	
11661	42029	A	11732	2	169	
11662	42030	A	11733	49	289	VPVVQVPAAPGPLPGPATGSCS ASAAPRPDPDPGHPGHHGHS P/GVLGFEVGIFSYCQEPPQKCV TIKIFESPIRRRL
11663	42031	A	11734	22	412	ARVGFLGQEGKAGARASGPA DDVC\GKGASAIRSHMRASRSP PSPRRCHHHHEATGTASGSAAG GPGAGCVWLCRLALTPSAQDG RNSTFQTYKKEVCLPRHSHPCW MHAAGTTAGGSVMSACCPSS SR

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11664	42032	A	11735	250	571	KGPRVTQGATVPKRQAPSAGL D/GSPISQFPWSY/DV*AIAILCG QCVT*PLPVSPGGPAPPESVAL AEWVCSGSRRLSNSGIARRPIG VIQPLDFLQNWPKPVLRC
11665	42033	B	11736	1	1593	
11666	42034	A	11737	2	1175	
11667	42035	B	11738	206	354	
11668	42036	B	11739	850	1461	
11669	42037	A	11740	2	663	VLLDERSAALDGA KR DGT LAL AAGALCREARAAQVFFLKGGY EAFSASCPELCSKQ/INVSANCP NHFE GHYQYKSILCGMTTHKA DISSWFNEAIDFIDS IKNAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISP NF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNF PV SIPDHSTNSALS YLQSLITTSSH C
11670	42038	A	11741	1	474	
11671	42039	A	11742	3	1354	WAVCATRVGGAVGGTAKKPR SPEPRVTLLSQSKSGFWFGAER PGGLAFPRKAPPCWPREQTKS TAGPITLGALRPAMVMEVGTL DAGGLRALLGERAAQCLLLDC RSFFAFNAGHIAGSVNVRFS TIV RRRAKGAMGLEHIVPNAELRG RLLAGAYHAVVLLDERSAALD GAKRDGT LALAAGALCREARA AQVFFLKGGYEAFSASCPELCS KQSTPMGLSLPLSTSV PDSAES GCSSCSTPLYDQGGPVEILPFLY LGSAYHASRKDMLDALGITALI NVSANCPNHFE GHYQYKSIPVE DNHKADISSWFNEAIDFIDS IKN AGGRVFVHCQ\AGISRSATICLA YLMRTNRVKLDEAFEFVKQRR SIISP NF SFMGQLLQF*VPQD/VL VPHCSAEGWEAPDMAVL\DRG TSTTTVFNF PVFIPV\HSTNSAL SLPFRGPINGPFPAG
11672	42040	A	11743	196	1260	
11673	42041	A	11744	5	447	
11674	42042	A	11745	1	328	
11675	42043	A	11746	3	364	
11676	42044	A	11747	1	816	
11677	42045	A	11748	1	1377	

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11678	42046	A	11749	1	989	EGRTVLGGGLGSAAAMASRL LNNGAKMPILGLGTWKSPPGQ VTEAVKVAIDVGYRHIDCAHV YQNEVEVGVAIQEKLREQVVK REELFIVSKLWCTYHEKGLVKG ACQKTLSDLKLDYLDLYLIHWP TGFKPGKEFFPLDESGNVVPSD TNILDTWAAMEELVDEGLVKA IGISNFNHLQVEMILNKPLKY KPAVNQIECHPYLTQEKLIQYC QSKGIVVTAYSPLGSPDRPWAK PEDPSLLEDPRIKAI AAKHNKVT TAQVLIRFPMQRNLVVIPKSVT PERIAENFKVDFELSSQD\MTT LLSY\NRNWRVCALLSCTSHKD
11679	42047	A	11750	1	855	
11680	42048	A	11751	2	367	
11681	42049	A	11752	2	376	QTYSLRRATPRHIIVGFTKVM KEKVLRAA\NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
11682	42050	A	11753	1	1536	
11683	42051	A	11754	1	2541	
11684	42052	A	11755	1	1788	
11685	42053	B	11756	1	1014	
11686	42054	A	11757	1	777	
11687	42055	A	11758	1	1029	
11688	42056	A	11759	1	2052	
11689	42057	A	11760	1	1392	
11690	42058	A	11761	1	993	
11691	42059	A	11762	1	1240	PTDPAAEGPCLLDAKTNKRKGP STPILPFCPSPFIRGPKVDSTHGA WGQKQHR*TGIF*RSRAPSPPA KEHGSSPATEQSWMENDFDEL REEGFRRIN\YSELKEEARTHGK EVINLEKK\LDEWITRITNAEKC LK\ELMELE\TKA\RELREECRS\ LRSRRNQLEERVSAMEDEMNE MK\QEEKFREKKNNKKK*TKAL KELWDYVKRP\NLRLIGIPESDE ENGTKLENTLQDIIQENFPNIAR QAN\VQIRGNRYRERPQRLPPRG RATPRTH/IIVRFTKVGNGREKM FKGQPGGKGR\VTLKGPITLTT ADLSAETSTSQKTEWGPIFNILE GKEFSNPEISYLSQT*AFISGREE LNSFYRTSQMLRDFCHHQASRL P*KSTRPALKELLKEALKHGK GNNPVPSHLQKFIA

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11692	42060	A	11763	1	1917	
11693	42061	A	11764	268	307	AHHTHLCLLTESPPEGR*VCWG CGLGWGVVLSLVCP
11694	42062	A	11765	2	349	
11695	42063	B	11766	1	1734	
11696	42064	A	11767	1	603	
11697	42065	A	11768	1	420	
11698	42066	A	11769	115	796	EWSSVRRSLVEKRALRRPHQ LCFRMKTILSNQTVDIPENV TLKGRTVIVKGP/REGTLRRDFQ SPSMENFTFLERKKKRLRV WWGNRKE\LATVRTICSHVQ MIKGVTLGFRYKMRSV\YAHFP HQPLLSRGNGSLV\E\RNFFG*K NISARVRMRP\GVA\CSV\SQAQ KGEF/ISLEGNDIELVSN\A\ALI QQATT\VKNKDIRKFLDGIYVFE KGTVQQADE
11699	42067	A	11770	1	295	ASTAGVSYYVAQAGLKLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFM YFAGTWMKLETILSKLSQGQK TKHRMFSLVGGN
11700	42068	A	11771	3	342	
11701	42069	A	11772	1	182	
11702	42070	A	11773	1	439	
11703	42071	A	11774	1	325	
11704	42072	A	11775	2	91	
11705	42073	A	11776	167	861	IWAILADPRMAQGKLRMEIGTK LRCLIWTVHKGVHWVTFWWV ERSQTGNLEVRRLWLGLLTHL HSGVNSLFTRARIWNPSMIDW/I KKMWHIYTMYYAAIKKNQF MSFAGTWMKLSAPAAPTVLFL ASFTNHYNLRASLLVESCLAPS YTSVEPRFSIPQSLTPARGSSDG HTCFHQSHDSLICADSTHFW LSAHIWIQANAPPVPRAPSELSL KTRLKCSPQLNLRRPP
11706	42074	A	11777	1	660	
11707	42075	B	11778	1	2633	
11708	42076	A	11779	1	2985	
11709	42077	A	11780	398	605	
11710	42078	A	11781	204	585	VTMCDRKAVIKNADMSEEMH QDSVECATQALEKYNIEKDIAA HIKKEFDKKYNPTWHCIVGEG TFGLC*HIETKHFLTSYLGAK WAISFCFKFWFKRHGTVATHPV IPFQKQGIALLNFQLPED
11711	42079	A	11782	1	810	
11712	42080	A	11783	188	534	

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11713	42081	A	11784	1	1188	
11714	42082	A	11785	1	1137	
11715	42083	A	11786	19	428	ERRNSGNMALRVERSVRAVLC SLHVVLAPAAPCLSRPWQLGM GAVW\YCNLPEVGTKLNKQDE FGALERVKAASELYSPLSGEVT EINEALAENPGLVNKSRYEDG WLIKMTLSNPS*LDELMSEEAY EKYIKSIEE
11716	42084	A	11787	66	631	RRDPRTPANMALRVVRSVRAL LCTLRAVPLPA\APCPPRPWQLG VGAVRTLRTGP\ALLSVRKFT KHEWVTENGIGTVG\SNFAQ\ EALGDVVYCSLPEVGTKI*TKP SWSLVLE\SVKAASELYSPLSG \EVTEIN\EALAENPGTCKTNFC Y\EDGWLIKMTLSNPSE\LDELM SEEAYEKYIKSIEE
11717	42085	B	11788	46	743	
11718	42086	A	11789	209	401	MKPPVRSLSLTPPRSIHMGSSATEI EELENTTFKYLTGEQTEKMWQ RLKGMEIKKLN*G
11719	42087	A	11790	135	313	
11720	42088	A	11791	1	624	
11721	42089	C	11792	81	299	
11722	42090	A	11793	5	166	SPVMMSFFLFVCLLTT*RSPSSS SSSSSSSSSSSSSSSSSPSPSSSFS GSVV
11723	42091	A	11794	3	173	
11724	42092	A	11795	169	291	SCNSSILSFLSLSLVADPQIATYR \S*CSRLGHKGTLTPGS
11725	42093	C	11796	1	429	
11726	42094	A	11797	1	279	
11727	42095	A	11798	3	376	
11728	42096	B	11799	1	736	
11729	42097	A	11800	753	2455	
11730	42098	A	11801	1	312	
11731	42099	A	11802	48	397	
11732	42100	A	11803	51	286	
11733	42101	A	11804	1	420	
11734	42102	A	11805	11	537	PDRPTRPCRQCARSFRRKLKAA VGVEGPSLSSGELGTRVPAAPS PTTRPRAMAFCLPSFAC\YSALI LHDDE\VT\VTEDKI\NALIKSSR V*MLSPFWPGLFAKALANVN\ MGS LICNVGAGGPCCPASWVL QPAGRSLPPPLLAASSLREKKV\ EAKKEGFRGSFD*LTWGFGSF
11735	42103	A	11806	114	399	

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11736	42104	A	11807	3	599	AIRRLRISAREEEERENQPRLLPL SLGAGGGVGGFVQQWPRFKAR DLRGKKKEEL\LKQL\DDLKVE LVPSARRQKRQGAAS\KLSKI R\VVRKSIAPCSRLFTQTOKEN LRKFYKGKKYKPLADLRPKKTR AMRRRLNKHEEN\RTKKQQR KERLYPLRKYAVKALGGALS IKHKENLKTKKQQRKERLYPLRK YAVKA
11737	42105	A	11808	226	370	AGSP*FPQFSEA*RRGALGSGA DQDLSPRITETLTSCRSQTSS PR
11738	42106	A	11809	3	7964	RSGSSKFEPRSRASVLAPSAL GPPNTSPRQLVAHCALPATRMP VTEKDLAEDAPWKKIQNTFT RWCNEHLKCVNKRIGNLQTDL SDGLRLIALLEVLSQLRMYRKY HQRPTFRQMQLENVSALEFL DRESIKLVSIDSKAIVDGNLKI LGLVWTLILHYSISMPVWEDEG DDDAKKQTPKQRLLGWIQNKI PYLPITNFNQNWQDGKALGAL VDSCAPGLCPDWESWDPQKPV DNAREAMQQADDWLGV
11739	42107	A	11810	1	636	
11740	42108	A	11811	3	261	QKKPLKQPKQA*EMDEV RAGAEALAGAGALGDRPELNTLCLS P\EDKAFKQKQKEEQKKLEELK AKA\AGKGPLAT\GGIKKSGKK
11741	42109	A	11812	1	621	
11742	42110	A	11813	1	1024	
11743	42111	A	11814	174	332	SHCLANAPGDVKVRNDPESPRE L*HL*R*RINYTRWKRSI*EEWC QGHISWRG
11744	42112	A	11815	1	1323	
11745	42113	A	11816	1	2322	
11746	42114	A	11817	1	336	
11747	42115	A	11818	22	391	PPPPAAKTRRKVLATKVLGTV KWFNVRNGYGFINRNDTKEDV FVHQTAIKKNNPRK\YLRVSG\D GETVEFDV\VEGEKGAEANVT GPDGVPV\EKGSRYAA\DRRR\Y RRCY\YDR\RRGPPPEYW
11748	42116	A	11819	433	866	PPPPAIDAEEKVLATKVLGTV KWFNVRNGYGFINRNDTKEDV FVHQTAIKKNNPRK\YLRVSGD GETVEFDV\VEGEKGAE\ANVT GPDGVPV\GSRYAADRRRYRR \GYYGKARWPPFANYAGGGRR RKGAQVEGFLPPLPLD

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11749	42117	A	11820	63	484	
11750	42118	A	11821	1	819	
11751	42119	A	11822	150	463	
11752	42120	A	11823	63	594	FAKLPNPKGKGGEATRYMFSP PF*ENHGVVPLGHNN*RF\YKK GDIVDIQGEWGTFLQKGNCPH KVVTHGQNLEGVLPMTVPA VGHLL*TNQF*GKVFS\KRINVR IEPIK\HSKSR\DSFLK\RVKEND QKKKEAKEKGTWVQLKRQPA\ PPREAHFVRTNGKEPELLEPIPY
11753	42121	A	11824	2	1376	
11754	42122	C	11825	132	341	
11755	42123	A	11826	155	245	
11756	42124	A	11827	3	293	
11757	42125	A	11828	204	467	LRAPHVACSRNQGPCMENCL NTDQHTQTQRQG*EEKSSSSK/ PISSLMEYYKRSQCSVKSKARS VF*LKLRAQAQLLQETKKPVFR L
11758	42126	A	11829	1	768	
11759	42127	A	11830	348	568	REISYKERIGM*MPPSVILNSYV KSMLETYPHPLLRGVVAPGPLK KGFLTESLLALPDPSFSGRMTSF KITPV
11760	42128	A	11831	1	840	
11761	42129	A	11832	2	216	
11762	42130	A	11833	1	726	
11763	42131	A	11834	3	3231	PGGWLRRALPGRERLQSPVHA VPPQHGTSHSRLLVTPGAGR DQDFSSPPLLLGETDHLHLDL PLSPLPTSDELFLPGICDPYVKL SLYVADENRELALVQTKTIKKT LNPKWNEEFYFRVNPNSHRLLF EVFDENRLTRDDFLGQVDVPLS HLPTEDPTMERPYTFKDFLLRP RSHKSRVKGFLRLKMAYPKN GGQDEENSQDRDDMEHGWEV VDSNDSASQHQEELPPPPLPPG WEEKVDNLGRITYYVNHN
11764	42132	A	11835	1	624	
11765	42133	A	11836	2	361	
11766	42134	A	11837	3	432	NSRVDDFVAAQDAKGGKVAP APAVVKKQEAKKVNPVLEFEKR PKNFGIGQ\QRLARAEEKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGVPYCHIKGKAR LGRLVHRKTCTTVAFT
11767	42135	A	11838	1	684	

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11768	42136	A	11839	9	247	AVTSDEPKGKKAKAKKVAPAP AVVKNQEAKKVVDPLFEKRHK N\FGIGQDIQPKRASPRLCPLP YIRLQRQRAILYK\RLKGPFCDY PGFTRALDRQTV*SSLLKL\AHK YRP\ETKQEKK\QRLFARAREEG VLAKGDVPNERDPPV\LRARSL TPFHHPWVEKQEKQLQLVVNVH TDV\DP\ELVLLALPLCREKW GVP\YCNYRREKARLWDRLVP QERPCTTCPFTQGELRKTGGG FWLKLGWKLIRTQFTIDQILMR SRRH\WG\GNVLG\PKSVGS*SP KLEK\AKAKELAH*TG
11769	42137	A	11840	1	273	
11770	42138	A	11841	1	218	
11771	42139	A	11842	1	1522	
11772	42140	A	11843	136	441	
11773	42141	A	11844	24	274	SRQAWHEAASASARRRGTRSP ALSPARAPAGPIWTNARRSARA NSVSPAAAPPPRRPVSLSDPGE SCTRDPRAPDPCGPFRC
11774	42142	A	11845	194	365	
11775	42143	A	11846	1	782	LLVVGTTVVVYFPNGRFKEFM SRHVHLMCYRICVRLTAITY HDRENRPNGGICVANHTSPID VIILASDGYAMVGQVHGGLM GVIQRAMVKACPHVWFERSEV KDRHLVVK\RLTEHVQDKSKLP ILIFPEGTCINNTSVMFMFKGSF EIGATVYPVAIKYDPQGFDAFW NSSKYGMVTYLLRMMTSWAIV CSVWYLPID*ERQIEDAVQFA NRVKSARQGGVLVDLLWDGG LKREKVKDTFKEEQQKLYSKM
11776	42144	A	11847	3	916	
11777	42145	A	11848	13	473	DPPTDSLSPDGGSELEFYLAPE PFSMPSSLGAPPYSGLGVGDP YAPLMVLMCRVCLEDKPIKPLP CCKKAVCEECLKVYLSAQIQCP TCQFVWC*CAGCAWKTSPSSPC LAARRPCARSASKST/SSAQIQC PTCQFVWCFCCHSPWHEGVNC KEYKKGDKLLRHWAIEHGGQ RNAQKCPKCKIHIQRTEGCDH MT
11778	42146	A	11849	92	1103	
11779	42147	A	11850	1	516	
11780	42148	A	11851	1	642	
11781	42149	B	11852	200	608	

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11782	42150	A	11853	1	1856	MEETGMCEGHGASPGMEASSG EREKRGTEASPGDREKRGTE ASSGEREKRRTEASSGDREKR GTGKASSGEREKRGTEASYG EREKRGTEAAGGQESCAHCGG WLMPRAKPSTHRETNPGRTEA TAMAMDHVGQQADTTDSTDG SQWDPSEHSPNCGIREVGAGDP DTQQTGRHHCYYPAKETNEKT NTNRNSNTFIEQLLHAKQQRGN SGVPFKPGHMVRALTNNALSW AKLYPDPWCLRMGGTGNEVFE NEIKTGSCWIKQEQGPRPQSP RSQVRPEADPGPSPLTKMSAEN EYRPPSPKLAAERDKPSPRLRP RGVPWRRESRVRAGRECALLR VAAEGARPPAGMSYDRAITVF SPDGHLFQVEYAQEAVK\RGST AVGVRGRDIVVLGVEKKSVAK LQDHRPVRKICT\LDN\VCMA FAGL/TPADARIVIQTGPGVEFQ\ SHRA*\TVEGPRVTVEYITPLTF ASLKASVYTQSKWGARPFG\IS GPHRGFSTFDGTP*\LYQTDPSG TY\HAWKA\NSIGRGAKSSARS SWEKNYTDKAIETDDL\TI\KLV IKALLEVVQSGGKNIE\LAVMR RDQSLK\LNPEEIEKYVA\IEIK EKEEN\EKKKQKKAS
11783	42151	A	11854	12	432	

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11784	42152	A	11855	1	1775	MSYPADDYESEAAYDPYAYPS DYDMHTGDPKQDLAYERQYE QQTYQVIPEVIKNFIQYFHKTVS DLIDQKVYELQASRVSSDVIDQ KVYEIQDIYENSWTKLTERFFK NTPWPEAEAIAPQVGNDVFLI LYKELYRHIYAKVSGGPSLEQ RFESYYNYCNLFNYILNADGPA PLELPNQWLWDIIDEFIYQFQSF SQYRCKTAKKSEEEIDFLRSNP KIWNVHSLNVLHSLVDKSNIN RQLEVYTSGGDPESVAGEYGR HSLYKMLGYFSLVGLLRHLSLL GDYYQAIKVLENIENKKSmys RVPRVPRSPTYYYVGFAYLMM RRY\QDAIRVFANILLYIQRTKS MF\QRTTYKYEMINKQNEQMH ALLAIAL\TMYPMR\IDESIHLQL REKYG\DKMLRM\QKGD PQVY EELFSYSCPFL\SPVVPNYDN\I HPN\YHKE\PFLQ\QLK\VFSDEV Q\QQAQLSTIRSFLKLLHPPCLV AKPGLASLDLTEQEF\RIQLLVF KHKMKNLRVDSAVSQALDGEF QSASEVDFY\DKDMI\HIADTK VARRYGDFIRQ\HKF\EELNPN P*RRMG\QRPWMIFTTHSGNLV
11785	42153	B	11856	1	537	
11786	42154	A	11857	98	334	WATERWKGRKNHEISWKCFPG KAIS*MRSSKQMKPNFPRCSSIT VLSVRGMVLFLTACPRFKMSS RTDFRFGNPQVT
11787	42155	A	11858	4	422	
11788	42156	B	11859	1	2567	
11789	42157	A	11860	2	364	
11790	42158	A	11861	1	501	
11791	42159	A	11862	1	402	
11792	42160	C	11863	30	673	
11793	42161	C	11864	195	1263	
11794	42162	A	11865	3	648	
11795	42163	A	11866	200	420	ILPSALRPPNPNWNVG/YVQTQ LVSKPLSLPTGIPCSTTSNLIKPV ITKDARLHRVIVHGWGIGTIPI AKIAIS

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11796	42164	A	11867	1	502	MQLPGRGHSFVCKANAGSTQA RQGASAGVAGCRGWLNAAAS EQIVLRVPHMRCEIPHKCVRRK SRIRPHSPFRLRNCWKGSRVRA FSLLRQLAKGGCAARRLSWVT PGFSQSRRCKTTASAKLACLQV RAQSEDISTVPIHYAYNMTRVG RMQMLGKYNPQSAKLVREAIL PTKATLDLSNQNNEDFSAFQLG LAQALHIKVHTMTREVMSDEL TKLLEGNLKPaidMMVEFNNT GSLPENAVDVLNTALGDRKSF VALMALMEYSRYLVAEDKSFA VTPLYVEADGVTNGPINAMML MTGGLFTPDWIRNIAGGL*FQ YTFTFNRRNSRSCFHIFQETSKK FFSMCF*SSLLTKHCHSSRDVW VFSTSFQHIRHTLIDGISNRTNQ LTCNTTSTRIDGNSQRVLSNTT
11797	42165	C	11868	1	3831	
11798	42166	A	11869	1	5370	
11799	42167	A	11870	1	3999	
11800	42168	B	11871	1	12036	
11801	42169	B	11872	1	16395	
11802	42170	A	11873	1	19997	
11803	42171	A	11874	1	70	
11804	42172	A	11875	44	613	AGTHLRPFSPSLSAAMALRYPM AVGLNKGHKVTKNVSKPRHSR RR\GRL\TKHTKFVRDMIREVCG FAPYERRAMELLKVSCKDKRAL KFIKKRVGTHIRAKRKREELSN\ VLAAMRKAANKDLGPSPCPL PEIKDKLDRSPGSPAVRGWWV VCRGPAVPCLPALSHLTSGCC LVVNQKPWPAHPSRGSR
11805	42173	A	11876	1	150	FRGRCCVQRYRGCTLASA/CLL VGAEAPSPVDPLERSRPYAVL RGQNLE
11806	42174	A	11877	447	725	
11807	42175	A	11878	2	206	RPVAYLLLQGWGRCCVQRYRG CTLASA/CLLVGAEAPSPVDPL ERSRPYAVLRGQNLDQTLH*ST HQA
11808	42176	A	11879	1	413	
11809	42177	A	11880	122	268	
11810	42178	A	11881	1	555	

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11811	42179	A	11882	221	419	LQTLQGYSNQNSMVLVVKQR YRPMEQNRALRNNAAYLQKSP *ADKQLQQ/ECQDTKSMCKNH KHSYTPITDKQRAKSRVNSHSQ LLQRE*NT*ESNLQGA*RTSSRR TTNHCSMK*KRIQTNGRTFHAH G
11812	42180	A	11883	1	2464	MDEFLNTYTLPRLNQEEVESLN RPITGSEIVAIINSLPRKSPGPD GFTAIFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEASILIPKPG RDTTIKENFRPISLMNIDAKILN KIILANRIQQHIKKLIHHDQVGF PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKKWKNIPCSWVGRINIM
11813	42181	A	11884	2104	2637	MFQRGHISQWWVVVGALTVFT SVLDTDPMRDNKRSGSEILPFC REHGTSFTYNHAHSPSCSPSCL FSGALFSPENNSGFLCMTLPAS FTAGNRLFSSAGQPWWIQQGF KAHAKARRLILLAFHHYCCRPF LAVELKPSPVSTPTFLFA*LLPP CSVPGAILHESFGEAITWLDAE
11814	42182	A	11885	69	417	QTHSQHYTEWGKVESIPPENW NNTRMPIFTISIQHIIRSSSESNT RERNQGHPNG*RGSTVAFC*R YDRIPRKP*RLIQKTPRTASAAD TQANRVWSGPPASSNRPAEAGP DC
11815	42183	A	11886	376	597	ENKIPRNPTYKGCEGPLQGELQ TAAQGNKRGHKHMEKHSRLM DRKNQYPSAADTQANRVWSGP PANSNRPAEAGPD*PGQNFQYH VE
11816	42184	A	11887	5	292	LTVSCPCSRMLFLTDDVLLPLM FIKKLGANVASPSSKKPLFVIRL VITLLPLACGTLPTSSVSRTTFF RTMLPQA\PEFAPPSTGTESHYY CCIW
11817	42185	A	11888	320	596	YPGKQGLEWTSSKLQQTCKRY RERHKDTP/TRRATPR/RHNCQV HQS*NEGKNVKGSRERSGYS QREAHQTNSRSLGRNSTSQKRV GASIQRS
11818	42186	A	11889	3	239	EASRGIRQQHLPCNICCSAAS TGDTQANRVWSGPPANSNRPA AEGDC*KEN*QTERSTTPKPD LYITHKDQSL

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11819	42187	A	11890	3	278	EASRGRIQQHLPFCNICCSAAS TGDTQANRVWSGPPANSNRPA AEGLDC*KEN*QERTSTPKPD LYITHKDQRLIPGLFTSPWISARI
11820	42188	B	11891	394	1213	
11821	42189	A	11892	856	1217	VDRSRLQKVSNNKLQAKGGC SNPLQGS*KLDNPKDANS/RQQ PERTWKWIFPQPHR*GAFGPRH C*ESHLQYQGLDLLNSAGSGIG KNEVQEQKRAEVGARAPEKE LPEALSWFLKVLW
11822	42190	B	11893	1	894	
11823	42191	B	11894	93	938	
11824	42192	A	11895	149	508	LLEGKLTNNKDIHIKTPSVRHH HQRPKPKISLS**ATSAKSQDTK SMCKNHKHSYTTITDKQRA\NH E*TPIHNCFKESKIPRNPTYKRC *G/RSSRRTANHCSRK*KRTQTN GRTFHTHG
11825	42193	C	11896	1	1257	
11826	42194	A	11897	183	1065	YWRCNGFLS*\YAEAAEEIVDCI TESLSILKTPLPKKMNEEMLCQ EFGFRGPLASVKIMWPRTDEER ARERNCGFVAFMNRDAERAL KNLNATAFRPALSHFPSLPMDT TSQIPKHVPVTVSSTNKLILIKTH FQAQSSLNQNIHPMDPSHGQY SAFSPSTPNPSHPALP*PLAIQVH HAVCDGFHVGRMLNELQQYC DEWQRDKLEEILRGLTPRKNDI GDAMVFCLNNAEAAEEIVDCIT ESLSILKTPLPKKMNEEMLCQE FGRFGPLASVKIMWPRTDEERA RERNCGFVAFMNRDAERALK NLNATAFRPALSHFPSLPMDTT SQIPKHSSHRQFNKQAHSDHQD SLSGPVQSESKYPSHGSIWDSI LSLLTLNTQIPPSLALTHMEME SGLHFHCPFTASPPSAVPPPELE KTTLKFIWNQKRARIANSILSQ KNKAGGITLPDFKLYYKATVT KTAWTGSPTAIRQARTTRQEKE MKGIQIGKEEVKLSLFTDDVNL QVRENK
11827	42195	C	11898	138	644	

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11828	42196	A	11899	2	3088	ADKTPGGSQKASSKTRSSDVHS SGSSDAHMDASGPSDSMPSPRT RPKSPRKHNYRNESARESLCDS PHQNLSRPLENKLKAFSIGKM STAKRTLSKKEQEELKKKEDEK AAAEIYEEFLAAFEGSDGNKVK TFVRGGVVNAAKEEHETDEKR GKIYKPSSRFADQKNPPNQSSN ERPPSLLVIETKKPPLKKGEKEK KKSNELEFKEELKQIQEERDER HKTKGRLSRFEPQSDSDGQRR SMDAPSRNRSSG
11829	42197	C	11900	413	823	
11830	42198	A	11901	263	1246	NPGKQGLEWTSSQTPADLQLR VLTVRRNTNKQKGPHQNPIC SPSSKTKEVENLEKRLDKWLTR LTNVEKSLNDLMELKTMAREL HDEGTSFSSQFDQLEERVPM EQSLQEIRDYVKRPNRLIGVPE SDGE\KEPSWKTLCRILSRRTSP A*QGRPTFKFRKYRECHKDTPQ GEQLQDT*LSDSPKLK*RKKY* GQPERKKYRLPSANT\KTSLRK* TRKSRRNG*ITGHIHPPKTKPGR S*IPE*TNRL*N*GNN**PANQK KSRRTRIHSQLPEAQRGAGTIP SETIPINGKRGNNPPKLIL
11831	42199	B	11902	67	2584	
11832	42200	A	11903	1	3793	MSDAEDERFLQFQLRYRVYLT GDCRTVGAGQWVQRTREPKQ GEALPHPGSARGWGVFPFRDD GWHLNVRTPTLILRFSLSK QHTRRPYSAPGSEGPTPTPCSL LAQQSEIKLQDGSEAGGPLLII PRQTGSGVDLRQTPTDMQLRV LTVRRKTNKQKGQPHQNPIC PSSKTKAPHHTYSKTDHIVGSK ALLSKCKRSEITNCLSDHSAIK LELRIKKRIQNRSTTWKLNLL LNDYCVHNEIKAEI
11833	42201	A	11904	1	441	

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11834	42202	A	11905	312	3705	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECRLDRDEERAYVLYM KYVTVYNLIKRPDFKQQQDY FHSILGPGNIKKAVEEAERLSES LKLRYEEAEVRKKLEEKDRQE EAQRLQQRQETGREDGGTLA KGSLENVLDSDKDTQKSNGEK NEKCETKEKGAITAKELYTMM TDKNISLIIMDARRMQDYQDSC ILHSLVPEEAISPGVTASWIEA HLPDDSKDTWKKRGNV
11835	42203	A	11906	1	609	
11836	42204	A	11907	3	755	LRVDNAPAHASGLFFCAGAAG TVLFAMAPSRNGMVLKPHFHK DWQR\RVATWFNQPAR\KIRR\R RPRQAKARRIGPAPRGGPIRPI VRCPTGRVHNGSWRPGRGFQP GRSSRVAGHSPRKVAPDPGIS VDPK\RETSSHGSPLQAQRAS GLKE\YRSQTQSSSPRKPSAS/PL *GDSSAEELKL\ATQ\LTGPVMP VRNVYKKEKARVITEEV\KNF KAFASLRMARA\NARLFGIRAK RAKEAAEQDVEKKK
11837	42205	A	11908	1	327	
11838	42206	A	11909	1	756	
11839	42207	A	11910	1	219	
11840	42208	A	11911	2	227	
11841	42209	A	11912	1	567	
11842	42210	B	11913	99	799	
11843	42211	A	11914	61	342	
11844	42212	B	11915	1	945	
11845	42213	A	11916	92	133	DPSPQKLKTLRKD*TNG*LQ*P MKRSP*MT*WS*KP*HENYVTH AQASVPDSINWKKGYQ*LKIK* MK*SKKRSLEKKE*KETNKASK KYGTM*KD
11846	42214	B	11917	1	368	
11847	42215	B	11918	1	106	
11848	42216	A	11919	1	705	
11849	42217	B	11920	1	834	
11850	42218	B	11921	1	1305	
11851	42219	A	11922	1	1187	
11852	42220	A	11923	228	619	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11853	42221	A	11924	1499	2238	KGKKKVINQISLGQRMRLSQSS HGKVQACQVPFHPNAPPVQF QSRELQSGSRPRSCGEKATRCL RQGPREVPLPKNAWA*QRKQE KKRSRKGS/GREPGLRRPPNAQ ARDRSSRAPATHRKELKPEREH ISCSRSHIRYQEWVSLRDTVHR NLVLDTKRHPALILVEYKERTS SPATEQSCMENDFDELREEGFR RSVITNFSELKEDVQTHHKEAK NLEKRLDKWLTRINSVEKSLND WMELKTMA
11854	42222	A	11925	699	796	
11855	42223	A	11926	1029	1223	ERELPDPLRFPSEGNASALLSAS RTVRASTDLRPLSGTP*RDEPGT SDGNAEITRLLRRSGWEL
11856	42224	A	11927	186	1597	
11857	42225	A	11928	1	1200	
11858	42226	A	11929	1	600	
11859	42227	A	11930	1	663	
11860	42228	A	11931	908	1331	GDMRGRREGGFLGRRTAMRC GCSPGIVREADNLVKLSRPSTV RVTRSSASVMVLT MPLAPATFL RVNCWAG/RGR/C*SQNETVSR TRCEEGR**KDYRVEEQRLRKN WDLARPGEEQLAPSPEKRDPL RVKDQGRHPCVV
11861	42229	A	11932	1	1707	
11862	42230	A	11933	1	1012	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLIDIYGTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSDHSAI KLELRQNLTQNHSTTWKLNNL LLNDYWLHNEMKAEIKMFFET NENKDTTYQNLWDAFK/RSV*R EIYSTKCPQEKAGKIQN*HPNID QQN**TTSKANKEKKREDSNRC NKK**RGYHHRSHRNANYHQR ILQ/YTSMQIN*KI*KKWINSSTH TLSQD*TRKKLNL*IDQ*QELKL WQ*SIAYQPKRVQDQMQDSQPN STRVASKRIKYLGIQLTRM*RTS SRRTTNHCSMK*KRIQTNGRTF HAHG
11863	42231	C	11934	1	1788	
11864	42232	A	11935	550	827	DVSWAGRSEDHRWIFLKEQRT GGPPK/ERSRSES RHQISCMCAA STWMERTAYGGSHRELLQLL PQEHTRKTLPLQQTSAWTYRLF HTSCEI

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11865	42233	A	11936	584	1094	NWIPSLHLTQKLIQDGLKT*ML DLKP*KP*KKT*AIPFRT*AWAR TSCLKHQKQWQQPKLTNGI*L N*RVSA/PAKETTISMN/EATYR MGENFCNLLI*QRANIQLQ*T QTNLQEKKNQPHQKVGKGHEQ TLLKKRHLCSQKTHEKMLIITG HQRNANQNHNEPFFHTS
11866	42234	A	11937	797	1044	EESIS*KWPYCPR*FVDSMPSPS SYR*VSSQNWKLL*SSYGTKQ EPTLPSQS*AKRTKLEASHYLT NYTTRLQ*PKQHGT
11867	42235	A	11938	176	374	LTNQKKSRTRWIHSQILSEVQR GADKQPNRE*TPIHNCFKENKIP RNPTYKGCEGPLQGELQTTAQ
11868	42236	B	11939	1	1843	
11869	42237	A	11940	3227	3391	DPLPGQRQLLLQKQRRP*TQAG LLSFQPGPQPHGSVPPTLSQPW LPGGWPELSG
11870	42238	B	11941	1	1479	
11871	42239	B	11942	1	2097	
11872	42240	A	11943	654	1341	KNRNYNKLRLPQCNTQRTQD *ESHKPLNYMETEQPAPE*LL GT*RNEGRNKDVL*NQREQRH HIPESLGRIQSSV*REIYSTKCLQ E/I/MQERSKIDTLTSQLELEKQ EQTHSKASRRQE/DN*NQSRTE GNRDTKNPSKNQ*IQELVF*KD QQN**TASKTNKEKKREESNRH NKK**RGYHHRSHRNTNYHQRI LQTPLRK*TRKSRRNGYIPRIH SPKTKTGRS
11873	42241	A	11944	471	611	
11874	42242	A	11945	1	585	
11875	42243	A	11946	3	1029	GRQHGGSQRMGGTASARASSG RLAPRGRGAFAFRRCPSRRW RLTCGPAAVEHSFCHNVGPGV RATADKYTCMFTYASQGGTNE QWQMSLGTSEDHQ\HFT\CTIW RPPRGKSYL\YFT\QFKAEVAGR LRFYRHGLTFKAA/SLKRES VPLENLRNFEVNQNSSGLTRPG GSKAELSKLVIVGQGIRALSCD QQPLLRRGGTFSSPVKLKGACVP ERAQHITGFLGGTLKFSTWADV ALSRRGFSGWLKPWGREQRVQ GPPGSQQLFRFPLPVKLFWTQD RRSRGTRKRVGNMGAMLGKAA MLPPTSSRASFMSLQNCFPMT QGTSMQMNWEEMKCFIFK
11876	42244	A	11947	1	1206	

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11877	42245	A	11948	1	654	
11878	42246	A	11949	849	1089	SPEGKHYRCYL VHMPSDTERSS L*MRPRAGRSSAEGPGCRQRSL ALDHMVQQAQRCWRYQWWR RFSKEFNQWWRFSEEL
11879	42247	A	11950	5	1376	
11880	42248	A	11951	2	278	VPQPDTRKGSVLKWISKRGKPL AVEIEESHCL\CLPLRTECLGKIP \VHLFSCTRPVIVPSLELNYDV DSIAHMFVADLLLMITLPSYDIP
11881	42249	A	11952	3	267	
11882	42250	A	11953	1152	1338	FKRGQYGRLLRPRFHHGQILYA RROGA\EPLAIQVHHA VCDGFH VGRMLNELQQYCDEWQGGGA
11883	42251	A	11954	394	615	ASDPLRGLLCGPSLLDERHPLL HGAQSHRPPKG*GVRANNAGL AGSSIYLQPRCGIHEVKPSGLLS REGLQLQS
11884	42252	C	11955	114	362	
11885	42253	A	11956	1	211	
11886	42254	A	11957	395	547	
11887	42255	C	11958	412	641	
11888	42256	A	11959	3	905	SNNSPTSASRVAGITGVRHCVR NWWVLGLTDFKNEAVDPRAW TTKSKTPPQNKTQENKNEDV GRDQRVEWLVTTEEVSLSLKG EKLHWKEKEVQSTGKETDARS SMRNYLMLLGPEVQEKEPVKR RLARGKAFVELAEPTRAPGNSG FPVSGGVFTPSLGALTWICKFR VKSWAILNSQLLLDTMKGIV YKNGDRIQGNRSADNRNNGVP LTGARDMQPAMPEPPTHSMGS CAARAFPMASAASCFRAPSPIDH PKAEE\WGARRGTGGQ\PTCSP GAGIHWVKPAGLLSREGLQLH
11889	42257	C	11960	482	709	
11890	42258	A	11961	1	734	MRLESD/KHLVQFVPIHKSGL EYPIGPWLPFITNSRVQEAFYH DRHSFEAVLDLNAAPESVDLAE AERLAEDLRLLYVALTLSAFAP LVRRRGDKKGD TDVHQSALGR LLQKGEPQDAAGLRTCIEALCD DDIAWQTAQTGDNQPWQVND VSTAELNAKTLQRLPGDNWRV TSYSGLQQRGHGIAQDLMPRL DVDAAGVASVVEEPTLTTVHQF PAGASRGTFWHSLFEDLDFTQ PVDPNWRL
11891	42259	A	11962	21	898	
11892	42260	A	11963	1	1962	

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11893	42261	A	11964	1	313	MRFYGQLAEDPGQQKAGETTR HTEDYISQLPLQRQGIPELALQK DLFINKIYGKEFNVCSTLEDPR VHVLCRDMDEAGNHHSQETIA RTENQTPHVLTHRRELNNT WTQGGEHHTPEPVMGWG*RPR AAKSWGNNKAY*RLYFSAFA ETRDPRTPSERSFY*QDLWK/ MSSMSAGRL*RIPEFMSFVGTW MKLETHLSKLLQGQKTKHRMF SLIGGN
11894	42262	A	11965	47	178	QQLVHTAFVIRLIRGTTEGAWR NCKQMAR*QSISLECKFMPRT
11895	42263	A	11966	2	223	
11896	42264	A	11967	2	133	
11897	42265	B	11968	179	6003	
11898	42266	A	11969	1	1125	
11899	42267	A	11970	1	360	
11900	42268	A	11971	677	1238	
11901	42269	C	11972	193	471	
11902	42270	A	11973	17	280	
11903	42271	B	11974	1	654	
11904	42272	B	11975	526	597	
11905	42273	A	11976	1	1261	
11906	42274	A	11977	170	998	
11907	42275	A	11978	1	1130	
11908	42276	A	11979	1	369	
11909	42277	A	11980	1	300	
11910	42278	C	11981	207	451	
11911	42279	A	11982	1	348	
11912	42280	A	11983	2	469	RGIREGEEFDVDLAGMEVAVG GWGRGLWLHRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFSSNTTCQQFRDPGFR GRYPASPHTLSLPPETAHL*LLL CLPAAGVLPHTWPLLDROGWH RGHAR

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11913	42281	A	11984	1	937	MAAPLVLVLVVAVTVRAALFR SSLAEFISERVEVVSPLSSWKRV VEGLSLLDLGVSPYSGAVFHER QYIPVKMKSKAFWIFSWWEYAM MYVGS/HSGNHLPLLLPSQLLG FHPRSL/VALYFLFQISLQTLVIF WYFFAEMFEHFSLFFVCVFQIN VFFYTIPLAIKLKEHPIFFMFIQI AVIAIFKSYPTVGDVALYMAFF PVWNHLYRFLRNIFVLTCHIVC SLLFPVLWHLWIYAGSANSNFF *GITLTFNVGQRPHRLKAPRASS AARSDRGPAASPASPGDAARPV SGRRPWDAPPHNYLNAVPPPSR
11914	42282	A	11985	1	521	
11915	42283	A	11986	1	207	
11916	42284	A	11987	1	867	
11917	42285	C	11991	1	225	
11918	42286	A	11992	72	425	
11919	42287	A	11993	1	354	
11920	42288	A	11994	460	752	
11921	42289	A	11995	93	401	PQKKYIHIFLDSLALLPRLECSG AISAHCKLHLLVSSDSPASASQ VAGITGARHHAWLIFVFLVEM GFHH/VGQAGLELLTSGDPPAL ASQRAGVSIFIYLFIF
11922	42290	A	11996	2	315	
11923	42291	A	11997	615	1180	
11924	42292	A	11998	3	151	
11925	42293	A	11999	2126	2241	
11926	42294	A	12000	1	765	
11927	42295	A	12001	924	995	
11928	42296	A	12002	1	789	
11929	42297	A	12003	2	132	FFFFFLVEMGFHHVGQAGLKLL TSSDRPPWPPKVLGLQARAT
11930	42298	A	12004	504	755	

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11931	42299	A	12005	1	1322	MAILPKVIYRFNAIPIKLPVTFFT ELGKTTLRFIWNQKRACIGKSV LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT ESSEIMLHIYNHLIFDKPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTSHTKINSRWIKDL NVRPKTIKLEENLGNTIQAIG MGKDFMTKTPKAMATKAKID KWDLIKLSFCTAKETTIRLLG RPPALFTASSSVLKQLALEGILI LDSRALLGFLYEARHSHSNPN HDAQNATSKKNIRDGYDKIYR QEQVLARMEEKTITAGGNVK WCSHFRKQIGGQWLTLETCTK TPQPFSSSQISTDKDKLNPQL LKMDPGHMGWCPPGMGIPWQ LSSDDR VVLAAGSGRHPGS GFKSL/PGLLHEGSYGH****S*I *GGNS*GSSGGPQCISGEERVFR
11932	42300	A	12006	12	143	
11933	42301	A	12007	1	534	
11934	42302	A	12008	1	591	
11935	42303	A	12009	2	353	
11936	42304	A	12010	1	1923	
11937	42305	A	12011	1	465	
11938	42306	A	12012	1	784	PGWEKRMSRSSVVNTQEALPT AAIPRDAKGRVYYFNHITNASQ WERPSGNS\SSGGKNGQGEPAR VRCSHLLVKHSQSRPSSWRQ EKITRTKEEALELINGYIQKIQS GEEDF\ESLASQFSDCKHQPKA RG\DLGAFQKKVRLQKPF*RTP RFALADGGR*AGPCFTD\SGIHII LPHLSEGWGAQAWPRGRAGRL GRPAPPCPPASGRTPHSLPPSHSI YCSHNGWEGALPDWGPFTGG PGVPHSLSVPSWGCDLQTLH
11939	42307	A	12013	1	319	PRERAPRGSVGAGGEICHTSVC CCQPSWTRLLLLITWMLL/YYS ECKPFHCSREEPDNHILLKI*EF GPPSTQGQHAAPLSRSRYSCCP DRYLLRKLKLGICQEHQLL
11940	42308	A	12014	1	1058	
11941	42309	A	12015	1	861	

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11942	42310	A	12016	1	431	IVLGGVATTVCQLNEFIMTDNA VPADVLVLTkPLGTQVAVAVH QWLDIPEKWNKIKLVVTQEDV ELAYQEAMMNMARLNRTGGL LICLPREQAARFCAEIKSPKYGE GHQAWIIGIVEKGNRTARIIDKP RIMEVA\HKWPLKM
11943	42311	A	12017	1	1020	
11944	42312	A	12018	247	1436	GERGPRTMSTRESFNPESYELD KSFRLTRFTELKGTGCKVPQDV LQKLLSLQENHFQEDEQFLGA VMPRLGIGMDTCVIPLRHGGLS LVQTTDYIYPIVDDPYMMGRIA CANVLSDLYAMGVTECDNML MLLGVSNNKMTDRERDKVMPLI IQGFKDAAEEAGTSVTGGQTVL NPWIVLGGVATTVCQPNFIMP DNAVPGDVLVLTkPLGTQVAV AVHQWLDIPEKWNKIKLVVTQ EDVELGLPGRRLNMARLNRT AAGLMHT\FNAHAATDITG\FG ILGHAQNLGQASRRNDVSFVIH NLPGAWPRWLAVSKACGNMF GLMHVTCPETSGGALLICLPRIE QAARFCAEIKSPKYGE GHQAWI IGIVEKGNRTARIIDKPRIIEVA\ HKWPLKM
11945	42313	A	12019	219	380	RPLQIRSHSELLGVWTPTESEF*E DTTQSVTAGLLEVSWGRVVLC SKSFPALQS
11946	42314	A	12020	1	516	
11947	42315	A	12021	1	228	
11948	42316	B	12022	56	656	
11949	42317	A	12023	1	488	
11950	42318	A	12024	3	419	
11951	42319	A	12025	1	348	
11952	42320	A	12026	1	708	
11953	42321	A	12027	25	213	
11954	42322	A	12028	1	1165	
11955	42323	A	12029	1	411	
11956	42324	A	12030	1	996	
11957	42325	B	12031	1	744	
11958	42326	A	12032	1	444	
11959	42327	A	12033	1	555	
11960	42328	A	12034	1	2241	
11961	42329	A	12035	1	408	
11962	42330	B	12036	1	423	
11963	42331	B	12037	1	507	
11964	42332	A	12038	3	529	
11965	42333	A	12039	191	319	
11966	42334	A	12040	1	660	

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11967	42335	A	12041	1	579	
11968	42336	A	12042	1	2940	
11969	42337	A	12043	1	4280	MEYYAAIKKDEFMSFVGTWM MLETIILSKLSQGRKPKRRMLSL IGSQLLTNKGTSWMENEFDELT EVGFRRTLHPKSTTEYTFFSAPH CTYLKIDHIIASKTLLSKCKRTEI ITNGLSDHSVIKLELKIKKFTQN CTTTWKLKNLLLNDYWVNEI KAEIKMFFETSENEEDTMYQNL WDTFKPLCRGKFIALNAHKRK QRRSKIDIQTAQLKELEKEQQT NSKASRRQEITKIRAEKVTETR KTLQKINESRSW
11970	42338	A	12044	1	645	
11971	42339	A	12045	3	362	LDQLLDMSYE/QLMQLYSCAQ RRRLNPGLRRKQHSLLK\RLRK AKK/EAPMEKPEVVKTHLRD MIILPEMVGSMVGVYNGKTFN QPEMIGHYLGFEFSITYKPVKH/G RPGIGATHSSRFIPLK
11972	42340	A	12046	1	519	
11973	42341	A	12047	2	599	PPRSEDPAKMAEVEHEEGSG PFRKFTLPAAVDLADQLLDIVPT KQFDAAVQVAAQRRRLEPGGL RRKQ\HSPA*KRLRKAKKGGPA PWRKPEVVKT/HTLRDYPDHSYP EMVG\SMVG\VYNGK\TFNQV GDQGVCGRPCRLGWAGVA*CR RDQLTPSFALGLPQPEMIGHYL GEFSITYKPVKHGRPGIGATHSS RFIPLK
11974	42342	A	12048	8	224	RTASYPRRFPWDHLLICPCQQL LICFLSLWIRLVFTKVSC*NNH NMFSCVWLLLLSMIFLRFTHIA CIRNI
11975	42343	C	12049	65	163	
11976	42344	A	12050	3	187	
11977	42345	A	12051	3	689	HASDQKEIIIEPFQAVDEVERVP EDYYTGPPVYLTEVTTLQQRLLQ PDFQPVCASQLYPRHKHLLIKR SLRCRKCEHNLSKPEFNPTSIKF KIQLVAVNYIPEVRIMSIPNLRY MKESQVLLTLTNPVENLTHVTL LECEEGDPDDINSTAKVVVPPK ELVLAGKDAAAEYDELAEPQD FQDDPDIIAFRKANKVGIFIKVT PQREEGEVTVCFKMKHDFKNL AAPISP
11978	42346	A	12052	1	882	
11979	42347	C	12053	152	404	

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11980	42348	A	12054	3	398	LRKIKIDLGKFSNDPDGYIDVLQ GLRQSFDLTWRDIMLLLDQSLT PNEKSAAKTAAREFGDLWFV/S FQN*SCKTTNRSSNGAPDAVHD *D/PTADPWTGPLAHALMLMTL KAPLTRKSQQLHDPYYAPIQQA V
11981	42349	A	12055	2	286	
11982	42350	C	12056	261	482	
11983	42351	B	12057	1	1133	
11984	42352	A	12058	438	575	NKTRMPSLTTPLOHSTESPSQSS QTREGNKGYPNW*RGSHTVTV C
11985	42353	B	12059	50	309	
11986	42354	A	12060	1	870	
11987	42355	A	12061	148	368	ELSSCSLSMHRAIHPSEERATT T/NQQSEPGSW*GWVGANRWC HKMSSGGSGLGTEPCGSLACSA WTVTVQAQ
11988	42356	A	12062	405	707	RLSLQTAGCSDVPVFPSAPSGPP SPA*AP*SGSAASPWPPFAPSAA HVAMPAPPRHWPQLSLKMPPW PPDSPVPPGCLA*AEAPPHCPV HLPASRSALS
11989	42357	A	12063	90	470	KSVHSLPPSFSSLLPWTCNRTLS KPPALPSPSRQPECRRLLHCSG SRHSSCPSSSSPSFSSSPSSSS SASASPPPPSPSPAPP*LWLQPL FCSQ*QLCHCQELVHLESRLTY PYHSSNQPF
11990	42358	B	12064	1	474	
11991	42359	A	12065	1	383	MEYYAAMKNDEFMSFVGTWM KLETIILSKLSQGQKPNTACSHS WMDPQRRGKRQSLSSIEAGAN QFPKSVFRFFGLGDSKVGSKWS ATCACEPIHTSEYCGDRVICKTT SSLRGASFAWCSSNGE*WFP SSMSLQRT
11992	42360	A	12066	1	384	MIITGLEDYEMGLRMEGTLEIP GHYQKDKFLAQSTPDLPLPKTS LTNPFSINQILAERQIVTFTVYP DTERDRETRNLADLKQIKIDLG KFSNDPDGYIDILRGLRQSFDLT WRDIMLLLNQTLAPN
11993	42361	A	12067	152	238	
11994	42362	A	12068	89	544	
11995	42363	A	12069	62	199	SWKPSFSANYHKDRKPNTACS HS*DPAFLAPSPVP*SRPLRPPQ D

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11996	42364	A	12070	1	655	SVSGLVEKVTFEQRLKGGEGDS TVGSSGNEIFRQWPCWELSNGC SLQGDAGCSCLVVHVTFPAGSL SGDGLPTAQWLQSLVLVLAGGR RVNSTQGHRCCHWGSVAEPCV LVKRHHAAQEGLCSFQKTPRS QVPFHLFWDPGHHTLLCSYCPS GVAGTQPAVQAVSTAV*TAAE GEPLPMSENMRCLVFCPCDSLL RMMVSSFIRVPTKDMNSSFFM
11997	42365	A	12071	1	987	MLVLGYNRKNTTEGTQKQKGT NASDFHFLSQVLEQVSPKGSK EAQCCVLRHLGCESSAPGIPP NLGIQLLTWAVMWDPFPTTLA RAPSLALELMTQYFNNWNWV YNNITDQGESKMSKLKGKERR QREGERRERKREKREKRESQR KERKREKKGKKREREKDRSDL KQIKIDLGKFSDDPDGYIDVLQ GLGQPYLTWRDIMLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTSEHGDWCHRYLL TDVLEGLRKTRKKP\N*SMISTI TQGKEENPTAFLERLREALRKH
11998	42366	A	12072	1153	1379	CLASWKEKSLHCPQRKQLR GEELEKLKKWKETATQIKRSYC WI*PSKSPHYLTS*KR*WNY**L GNYNSIPAS
11999	42367	A	12073	1	864	
12000	42368	B	12074	8	441	
12001	42369	A	12075	62	332	TDSPHCTDPPSRPTVPASCLKRK CCGSTMPARPIMPPTLMETR*M PISPRVSWAGPRPTSWPALISST LFPRMANHWRD*SRITWFQGG A
12002	42370	A	12076	34	409	TRAAGIRHEGKPEKTGLKRNFT N/DCRKS*TSG*RSTTSSRSRSPS PAPRSRCSR\RDLPAPPPLSRSG DRPQTAPSCPMWRARLPSCPGS AIPRPAWTRSACCGAASTRLR PFGSSTSPQWM
12003	42371	A	12077	1054	1368	
12004	42372	A	12078	298	514	PNWFKHDVSKSEFSNKMWIA KILKA/ARPAPLTQCV/RNSCFL QCRHLSSVSASDLT*DNVKRQF CVSPHTES
12005	42373	A	12079	2	1613	
12006	42374	A	12080	2	106	

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12007	42375	A	12081	42	305	YNTVLPKACLCGSLICWMN*SH SDQNMQVSVERSRLRVLYAC CGLLCTAYPQHFAHRYVDKIP GYPSRAGTLTGLHPMQVCRCR
12008	42376	A	12082	206	6038	
12009	42377	A	12083	1	4316	MQWEEAEKDPGSCVFQRPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLGKFSDN
12010	42378	A	12084	393	991	
12011	42379	A	12085	324	438	
12012	42380	B	12086	528	598	
12013	42381	A	12087	52	574	
12014	42382	A	12088	1235	1366	
12015	42383	A	12089	1	1800	
12016	42384	A	12090	1	513	
12017	42385	A	12091	3	77	
12018	42386	A	12092	1923	2171	GAFCPFTLLHGYQVLQWPGSSL PHKEGPAPALEGGHVYPRWI*A SADSQSTEAGRIGPASTG*RQYP GGEEHACCLPALLHS
12019	42387	A	12093	1	360	
12020	42388	B	12094	21	3636	
12021	42389	A	12095	1	936	
12022	42390	A	12096	1	599	
12023	42391	A	12097	1	248	VGKSSIVCRFVQDHFHDNISPTI GASFMTKTVLCGN/ELHKFLIW DTAGQER/SRQIPPLDPHENGNN GTIKVEKPTMQASRRCC
12024	42392	A	12098	1426	1572	
12025	42393	A	12099	367	513	
12026	42394	A	12100	31	661	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVCRFVQDHFHDH NISPTIG\ASFMTKTVPCENDFT KFLIWDTAGQERFYS LAPMY RSGAAVIVYDFTEAGFH FHL KKW\KRLKELGPE\NIVMAIA GNKCDLSD\REVPLKGC*RNTA ESIGAI VVETSAKNA\NIE\ELFQ G\ISRPDPHPWTPHENGNGTIK VEKPTMQASRRCC

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12027	42395	A	12101	1	487	MDKFLDITYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILPKNW KKLL
12028	42396	A	12102	1	1563	
12029	42397	A	12103	1	1449	
12030	42398	A	12104	3	1606	
12031	42399	A	12105	2	402	
12032	42400	A	12106	172	329	
12033	42401	A	12107	1	720	
12034	42402	A	12108	97	206	
12035	42403	B	12109	1	1248	
12036	42404	A	12110	1	1419	
12037	42405	A	12111	1	1387	MDKFLDITYTLPRLNQEEVESLN RSITGSEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVLLLLKLF QSIEKEATLPNSFYEASIIIPKP GRDTTKKENFRPISLMNIDAKIL SKILANQIQHIKKFVHHDEVG FIPRMQGWFNHKSKNVIQYIN RTKDKNYMIISIDAEKAFDKIQ QLFMLKTLKLGIDGTYLKIIRA IYDKPTVKIILNGQKLEEFPLKT GTRQGCPLSPLLNFIVLEVLR AIRQEKEIKGILLGKEEVKLSLF ADDMIVYLENPIVSAQNL/LKLI SNVS\KV*GYKINVQKSQAFLY TTNRQTESQIMSELPFTIASKRI KYLGIQFTRDVKDLFKENYKPL LNEIKEDTNKWKNI PCSWVGRI NIVKMAILPKPPLLIPRQTGSGV DLQQTPTDLQLSVLTVRRKINK QKGHPHQYLIWTSPSSKTKGRQ LLASNRTKLDGE
12038	42406	B	12112	1	711	
12039	42407	A	12113	1694	4489	IYRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRARIAKAIRSQKNKS GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYNYLIFDKPEKNEQWGKDSLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLIVRPKTIKT LEENLGITIQDIGMGKDFMSKT PKAMATKAKIDKWDLIKLSF CTAKETTIRVNRQPTKWEKTFA TYSSDKGLISRIYNELKQIYKKK TNNPIKKWAKDM

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12040	42408	A	12114	1	115	
12041	42409	A	12115	58	414	
12042	42410	A	12116	6	389	VMTTGTNSRVEPRVRGRVYKK KMDKKRQEKITEAKSKDKSQM DEEKT/DEKPKLQVELEQEQ DKFKRLPLEILEFVQEAMKGKI SEDSNHGSAPLSLSSDPGKVN KTPSSEELGGDIPGKEFDTPL
12043	42411	B	12117	50	5137	
12044	42412	A	12118	1	1194	
12045	42413	A	12119	1	2559	
12046	42414	A	12120	3	406	
12047	42415	A	12121	119	423	TSSCSSEK FVITHLLKPTSVNSS KSFSFQLCSIG/VQGAAILWRRR GSLVFRIFSFSA LVSPHLCGFIYL WSLTMVTYFSL SNGGRSPCQA AAPQVNLGLLC
12048	42416	A	12122	3	597	ISASADNVFMSVSPSCSSCFF TLRYRLWKSEKPLYYSFVDKP VAYKKREMVVN LQKQFKHTG RVQ/SSNLLEKKAPSSFQFNWT EEDTDRTCFHGHSLQGV LKEK GQSL LTKNSLYWLSTQKF*RCY GHHVPPYEESIYFLSNR FN LNF SFL LRIKTSFL\HEEVSLVEK KL FEEKIQCKKERNQDPRKVRTTL
12049	42417	A	12123	1	883	
12050	42418	A	12124	23	362	FAFNMPEPGKIVPAP*KGSKKA VTKAQNKDGEKRMLSRKESYS VYVYKVLKQVHPDTGVSSKG MGIMNSFVDDILERIAGEAFRL AHYNKRSTITSREIQT D VRLLLT REMYK
12051	42419	A	12125	2	405	
12052	42420	A	12126	1	398	LHSAMPEPAKSAPAPKKGSKK AVTKAQKKDGKKRKR SRKESY SIYVYKVLKQVHPDTGISSKAM GIMNSFVNDIFERIAGEASRLAH YNKRSTITLPREIQTAVRLLLP\ GELAKHAVSEGTKAVTKYTSA K
12053	42421	A	12127	1	401	
12054	42422	B	12128	48	424	
12055	42423	A	12129	3	462	DAWVSGRLTELPSCFFPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGKKRKR SRKESYS VYVYKVLKQVHPDTGISSKAM GIMNSFVNDIFE RIAGEASRLA HYNKRSTITSREIQTAVRLLLP ELAKHAVSEGTKAVTKYTSSK

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12056	42424	A	12130	74	504	FAFNMPEPAKSAPAPK\KGS\KK AVTKAQKKDGKKRK/RSRQGR AYSVYVYKVLKQVHPDTHL LLRPWGIMELLSFNDIFRNGIAG LRVSR LGRI*QQGVSTIHLPGEI HDGPLRLACLPGGVWPSKAVF RGAPRPFNQVNTSV
12057	42425	A	12131	53	471	
12058	42426	A	12132	1	241	FKDTC TRMFIAALFTIAKTWNQ PKCPTMWHIYTM EYYAAIK/SD EFMSFVGTWMKLETITLSKL*Q GQKTKHRMFSLIGGT
12059	42427	A	12133	1	244	
12060	42428	B	12134	1	2142	
12061	42429	A	12135	1	1962	
12062	42430	A	12136	3	393	IWMKLETIILSKLSQG*KTKHR MFSLTGGNLTMR TLGHRLLPSL PHRLRPCARLHLRCPWP PPSR RRCARSTTPTATP PSTATSRWSS TPPTCTCLWPSTSTGTTWP WRT SSATSCACRTTKW SMPRS
12063	42431	A	12137	2	87	
12064	42432	A	12138	1	270	
12065	42433	C	12139	1	214	
12066	42434	A	12140	1	684	
12067	42435	C	12141	1	333	
12068	42436	A	12142	1	189	
12069	42437	A	12143	215	310	
12070	42438	A	12144	2	91	
12071	42439	C	12145	1	229	
12072	42440	A	12146	1	268	
12073	42441	A	12147	1	278	
12074	42442	A	12148	2	274	WMKLETIILSKLSQRQKTIHHLF SLIALFTIAKKWKPPRYLSVDK WIKKLWY/HTYTM EYYSAFKK EAILPIAIAMGLKDIMLSEISQ TWP
12075	42443	A	12149	2	136	
12076	42444	A	12150	2	95	
12077	42445	A	12151	1	233	
12078	42446	A	12152	377	484	
12079	42447	A	12153	2	91	
12080	42448	A	12154	1	891	
12081	42449	A	12155	1	1194	
12082	42450	A	12156	785	892	
12083	42451	A	12157	191	317	
12084	42452	A	12158	410	520	
12085	42453	A	12159	683	796	
12086	42454	A	12160	830	927	

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12087	42455	A	12161	18	539	PTDP*LGIIYQKEYKSCYYKDICT/RVCPAALFTIANTWNQPKCTSMIDWVKKMWHIYTMYYAAIKTDEFMSFAGTWMKLETHLRKLSQGQKTKHRMYSLIGGNLTMRTFGHSAGSHHTPGPIMRCGAGGGIALGEIPNVNDELMGTANQHGTCPMQQNCTLCTCTLKLKV
12088	42456	A	12162	1	108	ASTAGVSYYVAQAGLKLGLSLSKCRDYRCEPPCPE*MSLYKVMAMARKAMSLYIYFFLDEFMYFAGTWMKLETHLSKLSQGQKTKHRMFSL*GVSYYVAQAGLKLGLSLSKCRDYRCEPPCPE
12089	42457	A	12163	1	701	
12090	42458	A	12164	274	435	
12091	42459	A	12165	1	3658	
12092	42460	A	12166	749	856	
12093	42461	A	12167	1	598	
12094	42462	A	12168	538	664	
12095	42463	C	12169	1	873	
12096	42464	B	12170	177	325	
12097	42465	B	12171	1	1245	
12098	42466	A	12172	1	3313	
12099	42467	A	12173	1940	2060	
12100	42468	A	12174	1	1213	
12101	42469	B	12175	155	559	
12102	42470	A	12176	2	321	PAPRGGAYRGRQTSLSGGLHPV*ASWLLCLPKQAWAM/VGRP PQASLLPCSLISDCCASNQRDSVGVPSEPCAGYNLLLCRFLSQSEKHSIRVGAVDCSCSYLAIL
12103	42471	A	12177	1	519	
12104	42472	A	12178	1	477	
12105	42473	A	12179	119	375	KRTQT*AIAGAPPASLPPCSLISDCCASNE*GSVGIGPSKPGAGYNLLCHLISPSISPTSSPKSDTCPIADFSNKSPDRSSAGDILLAMQSLGSMIFLILILPTREHGKFFHLFVSSFISLSSGL
12106	42474	B	12180	1	363	

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12107	42475	A	12181	1	1309	MAEGEEGTSYMAAGERVVAIALIDGFRPLTLESTFFNSGSCSKLEQHSTYLGDFADFGTTIKQDFRLLGQTSVDRLLQLSQGQAVPEPKQHIGPKQKYRSTGPNRALRNNAAYLQFLIFGNLEKTKPWGKDSLLIKVFEAAVLWIECFAFIFYDARGVLIVVQVDSCKLEQHS TLSRAILLIYKGFCRFRNHHQTGFSPAGANQRGPLAATLSGPGGEGQSAVARLTGEKKNHPGAQYANRLSPRVGRFINAAGTTGFPTGKRAVSATQLMDFADFGTTIKQDFRLLGQTSVDRLLQLSQGQAVKGNQLLPVSLVKRKTTLAPNTQTASPRALADSLMQLARQVSRLESGHLISDCCASNQPD SVGVPSEP GAGYNLVVRHFLSPSEKHSIRVGVTRFSRCRPSPLPLTQKGNLSLTPCASQLRQCLALLRLRH
12108	42476	B	12182	1	1335	
12109	42477	A	12183	1	1675	
12110	42478	B	12184	57	1530	
12111	42479	A	12185	1	1419	
12112	42480	A	12186	1	574	RVDDFVRQTRPSAQAALAEKMAANQPPPLMMKHSQTDLVSRCLKTRKILGVGGEDDDGEV/HRSPISQALGTEIKFTIREPLGLTVWQFVSAVLFSGIAIMALAFPDQLYDAVFDGAQVTSKTPIRLYGGALLSISLIMWNALYAEKVIIRWTLTEACYFGVQFLVVTATLAETGLMSLGIRLTRSSRRGR
12113	42481	B	12187	79	387	
12114	42482	A	12188	1	908	
12115	42483	A	12189	2	70	
12116	42484	A	12190	1	1158	

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12117	42485	A	12191	2	611	FVSVPSVLLGLQFWRSERD/TARLQSARWRVERGRLKELLSRQRPRRREEVVVGREVCRTMEV RASLQKIVSNGDEQLEKAMEEI LRDFEKRPSLLVDCQSSSEISD HSFGDIPASQTNKPSLQLILDPS NTEISTPRPSSPGGLPEEDSVLF NKLTYLGCМКVSSPRNEVEAL RAMATMKSSSQYFPVTLYP
12118	42486	A	12192	3	497	
12119	42487	A	12193	1	804	
12120	42488	A	12194	1	1243	MAPVEHVADAGAFRLHAAL QDIGKNIYTIREVVTEIRDKATR RR LAVLPYELRFKEPLPEYVRL VTEFSKKTGDYPSLSATDIQVL ALTYQLEAEFVGVSHLKQEPQ KVKVSSSIQHPETPLHISGFHLP YKPKPPQETEKGHSACEPENLE FSSFMFWRNPLPNIDHELQELLI DRGEDVPSEEEEEENG FEDRK DDSDDDGGGWITPSNIQIQQE LEQF\DVPE D VRVWLA*PPDFA MQNVLLQMGLHVLAVNCMLI REARSYILRCHGCFKTTSDMSR VFCSHCGNKTLLKVS VTVSDD GTLHMHFSRNP KVLNPRGLRY SLPTPKGGKYAINPHLTEDQRF PQLRLSQKARQKTNVFAPDYIA GVSPFV\ENDISSRSATLQVRDS TLGAGRRRLNPNACRKKFVKK
12121	42489	C	12195	164	350	
12122	42490	A	12196	1	378	
12123	42491	B	12197	265	1539	
12124	42492	A	12198	1	2511	
12125	42493	A	12199	1	1077	
12126	42494	B	12200	38	1451	
12127	42495	A	12201	1	207	
12128	42496	A	12202	1	197	
12129	42497	A	12203	1	216	
12130	42498	A	12204	1	335	
12131	42499	A	12205	1	174	
12132	42500	A	12206	1	1309	
12133	42501	A	12207	1	1266	

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12134	42502	A	12208	1	590	IDRFDAPCGLEEDHEDEFNE EDERAIEMYRRRLAEWKATK LKNKFGEVLEISGKDYVQEVTK AGEGLWVILHLYKQGIPLCALI NQNLISGLARKFPDVKFIKAISTT CIPNYPDRNLPITILVYPG\GDIN G\QFIGPLSV\GGMNLTRDELEW KLSESGAIMTDLEENPKKPIEDV LLSSVRRSGPHEEGQRFGRG
12135	42503	A	12209	291	416	SHYLKIHAEKLSEYDQISPPNSQ PDKENPVLST**SIQRRHMTLFK MNLKILKYRKPEA*SQRLVSK R*KHSIRGSGINLSFVPTGFQIVP FHLFETSLWL
12136	42504	A	12210	437	773	DYTITGELKTAIQRSKINFCPIH SHSSHNAKSFVI*TVTLHRHLL *KVSVNKVQSLFIQCGIFSEAGA GVYNYCPPPRQRRQPGDKPRW RWRRGRNNRCSANSHGLQLYA
12137	42505	A	12211	1	1183	
12138	42506	A	12212	1	459	
12139	42507	A	12213	1	513	
12140	42508	A	12214	91	1168	
12141	42509	A	12215	323	429	
12142	42510	A	12216	870	1305	SPGLPHCWQPCRARSRGTDVW NVLVS\GSGSGAYKEPAILVGPE NLTLTVHQTAVLECVATGNPRP IVWSRLGWPPNPTAKEQEQRRA KTESQRKQPRDKARENQPKAA RPKRAAPKSHEAARKTNPPTAS TKRQAAPTNTPKESS
12143	42511	A	12217	1	2695	
12144	42512	A	12218	1	258	
12145	42513	A	12219	1	624	
12146	42514	A	12220	247	425	
12147	42515	A	12221	31	858	LLEIVNSSIQPEKQAGWLSQAV HGAPDGPNRPMHPETSPGRG HLLAVLLALLGTTWAEVWPPQ LQEQAPMAGALNRKESFLLLSL HNRLRSWVQPPAADMRLDW SDSLAQLAQARAALCGIPTPSL ASGLWRTLQVGWNMQLLPAG LASFVEVVSLWFAEGQRYRHA AGE*ARNATCTHYMQLVWATS SQLGCGRHLCASQAQAAIEAFVC AYSPRGNWEVNGKTIVPYKKG AWGSLCTASVSSLLKAWDHAR GLLGGPRETLGKEPTWPWALK
12148	42516	A	12222	1	1519	
12149	42517	A	12223	1	789	

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12150	42518	A	12224	1	505	ATEDPGVAMGRRPARCYRYCK NKPYPKSRFCRGVPDAKIRIFDL GRKKAKVDEFPLCGHMSDEY EQLSSEALEAARICANKYMVKS CGKDGFIHVRHLHPFHVIRINK MLSCAGAD/RIHISKKWGFTKF NADEFEDMVAEKRLIPDGC GV KYIPSRGPLDKWRALHS
12151	42519	A	12225	135	828	RFWVSPHGPAAPARCYRYCKN KPLPKVLRFCR\GVP\DAKIRIFD PGA EK RQKVE*VFRFCGHMVS DE\YNQLSS*ALE\AARNLCPIS TMVKS\CGKDGFIHVRHLHPF HVIPHQTRCCSCAGADRLQTG MRG\AFGKPQGTVARVHIGQVI MS\RTKLQNK EHV\IDALRRAK \FKFPGRQ\KIHISKKWGFTKFN ADEFEDMVAEKRLIPDGC GVK YIPSRGPLDKWRALHS
12152	42520	A	12226	2	367	
12153	42521	A	12227	2	376	QTYSLRRATPRHIIVGFTK VEM KEKVLRAA/NKPIRLTVDL SAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
12154	42522	A	12228	1	714	
12155	42523	A	12229	122	939	YPGKQGLEWTSNKIQQTCS*GS SLLEGKLTNRKDIHTKTPSVRH/ RSSKAKERVSVIEDQMNETKRE EMFREKRVKRNEQSLQEIWEY VKRPNLRLIGVPESDGDNGTKL ENTLQDIIQQYFPNLARQANIQI QEIQRMPQRCSSRRAAPRHIIVR FTKAEMKEKMLRAARGKGRV THKGKPIRLKVDVLAETLQARR EWGPIFNILKEKNFQPRISFPAK LSFISKGEIKSFTDK EMLRDFVT TRPALQELLKEALNMERNNRY QPQQKHAKL

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12156	42524	A	12230	1	1043	MGDFLHSTDRNYLIKFWAKLS AKKTPANSSSPLGDHQHPCITK NLQIPEKWLIGLLLPLKADLLK EDAGTHCKEAKNLDERLDEWL TRINSVEKFLNDLMELKTMAQE LHYACTSFSSQFDQLEERVSVIE NQMSEMKREEKFREKRVKRNE QSLQKIWDYVKRPNLRLTGVP SDWENGTKLENSLQDIIQENFP NLARQANIHIQEIQRMPQRYSS RRATPRHLIVRFTKFEMTEKMOV RAAREKGQVTHKGKPIRITADI SAETLQARREWGPIFNILKEKN FQPRISYPAKLSFISEGEIKSFTD KQMLRDFVTTRPTLQELLKEAL /NMERNNQYQPLQKHAKL
12157	42525	B	12231	1	1275	
12158	42526	A	12232	1	1584	
12159	42527	B	12233	1	1023	
12160	42528	A	12234	1	2052	
12161	42529	A	12235	5160	6183	VSKHPQASAGDTQTNRVWSGP PANSDRPAAEGPDC*KEN*QTE RTSNQNPICMSPSSKTKEAKNL DKRLDEWLTRINSIEKTLNDLM ELNTMARKLRDACTSFSSQFDQ VEERVSVIDQMNMKREEKF REKRIKRNKQSLQEIWDCVKRP NLRLIGVPESDGENGTKLENTL QDIIQENFPNLARQVNIQIEIQ RTPQRYSSRRGTPRHIVRFTKV EIKEKILRAAREKGRVTHKGKPI RLTAVLLAETLQARREWGPIFN ILKEKNFQPRVSYPAKLSFISEG EVKSFTDKQMLRDFVTTRPAL QELLKEALNMERNNRYQLLQK HATLSRPSMLG
12162	42530	A	12236	1	975	
12163	42531	A	12237	3	1186	
12164	42532	A	12238	1	906	
12165	42533	A	12239	1	1882	
12166	42534	A	12240	1	1394	

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12167	42535	A	12241	1	4935	MGPGARLAALLAVLALGTGDP ERAAARGDTFSALTSVARALAP ERRLLGLLRRYLRGEEARLRDL TRCNDETITYLLDKRLTVLTAA NIPYSSPENGAKRRRQDAFPPIH YNTQDALLQYLSGVGWGAPPA AQHRDAPFVDSIAQVLLRTSG GSAEASGWSLRSRWAVGGATG SWVLSKGDRA SLGERVV TGWA TLNVGRSFAYCLTTCVQPPLDV GPRKEHAPRPPSLSPSTRQRGQ SERSQDANGRRKQKT
12168	42536	B	12242	88	1014	
12169	42537	A	12243	686	1920	IKPQRWGGKKQNRKTGNSKKQS ASPPPKERSSSPATEQSWTENDF DELREEGFRRSVITNFSELKEHV VTHRKEAKNLEKK\LDEWITRI TNAEKSLKDL MELKTTAQELR NECTNLSNRCDQLEETVSAME DQIN/EMNEMKQEGKFREKRIK RNEQSFQ\EIGDYVKRPNLH\LI GVPESDGQNGTKLENTLQDIIQ ENFPNLARQANIQIE\QRT PQ RYS LRATPRHIVRFTKVEMK EK\MLSAAREKGR\VTHKGKPIR LTTADLSAETLQAQKTEWG\PIF NIL\KEKNF\QPRIS\YPAK\LSFIS EGEIKYFTDKQMLRDFCHHQG LPLKELLKEEALKHWKGTRY QPLAKTLPKYRSTRQKVNKDT QELNSALHQADLIDIYRTLHTK STEYTFQHHHTPIPKLTT
12170	42538	A	12244	1	633	
12171	42539	A	12245	3	109	
12172	42540	A	12246	2	575	
12173	42541	A	12247	1	237	
12174	42542	A	12248	1	1065	
12175	42543	A	12249	2	338	
12176	42544	A	12250	1	1319	
12177	42545	A	12251	1	744	MQKALCAAPDLGTFVTVLTPPP GAQIGSRRRERSKVPYIVRQCVE EIERRGMEEVGIYHVSGR/VAA DIQALKAAFDVN/NRTMHSSWE ESDELLKARDDPHSGQHSRDG ALAKAGMADKKDMSVMMSET DMNAIAGTLKLYFRELPEPLFT DEFYPSFAEGIDRLERVAEKEA VNMKSLHNLATVFGPTLLRPSE KESKLPANPSQPITMTDSRSLEV MSQVEVLLYFLRLAIPALDSK RQSILFSTDV

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12178	42546	A	12252	1	507	
12179	42547	A	12253	1378	4280	STPMAVAGPLGRPWSTSPTRAS TSGASWKGRARARSCAARAPL SRRSALPGPAGPTPPGVLRIAEA AIPRTAAPMRTSPPARRTSPLAS PAACPQAPPPTACSGTKAALPR RTRNSPSTA AVPPRRSAISGTGT ARLSCPRPPSWASARPGRS GPT MTRAPSMETQMARSEHHLDTA ALQTGQRSSAGTKMGCPTLMT RPPHRPTSAARAGAAGMRWSR EP*SPLK/RSELDLEKGLEMRK WVLSGILASEETYL
12180	42548	A	12254	1	1109	MRTPYKTSPMRMLYMTSLMTP TRHANEDAVDDIAYKDTVQDI TSEDAVYDIANEDVVYDIANED ALQDIANEVAVYDIANEDIVYD IANEDALYDITNEDAVYNIANE DAVYGIANEDAVYEFANKHAV YDIANEDTVQDICKKEDAANK CYFPGFFPIRCRHEHLPVCIIDVI CSLIKCRHEHLPSSLIGQDRLGA QASRRERSKVPYIVRQCVEEIER RGMEEVGIYRMSGVAADIQAL KAAFNVSECRPAQDGMEVWA VVSAMRSQSAPRPRHVTFSVS FLHLSGSSRRPLHFRALSNNKD VSVMMSEMDVNIAIGSLKLYF RELPEPLFTDEFYPNFAEGIGEH WRPWPHGRLLHVHCCPQRL
12181	42549	A	12255	1351	4308	WKGRARARSCAARAPLSRRSA LPGPAGPTPPGVLRIAEAAIPRT AAPMRTSPPARRTSPLASPAAC PQAPPPTACSGTKAALPRRTRN SPSTA AVPPRRSAISGTGTARLS CPRPPSWASARPGRS GPTMARA PSMETQMARSEHHLDTAALQT GQRSSAGTKMGCPTLMTRPPH RPTSAARAGAAGMRWSREPWS PLK/RSELDLEKGLEMRKWVLS GILASEETYLHLEALLPMKPL KAAATTSQPVLTSQ
12182	42550	B	12256	1	1017	
12183	42551	A	12257	2310	2834	EEKYNMQTRLRRAEDVFPPVIG VAAHKGGVYKTSVSVHLAQDL ALKGLRVLLVEGNDPQGTASM YHGWPDLHIHAEDTLLPFYL MLR/LAIETVAHDYDVIVIDSAP NLGIGTINVVCAADV LIVPTPAE LFDYTSALQFFDMLRDLLKNV DLKGFEPDVRILLTKYSNSNGW

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12184	42552	A	12258	106	108	NFLFVLRRQLWVGGLCW*AAE LNKVCL
12185	42553	A	12259	1	901	
12186	42554	A	12260	23	482	KPRELGPISPVWLPDRLPERPQ RRRPSGVDPGSWLGSGLSCGSTG CSALMSCSCGSTPLLSLALKVT PGGVLGAPSGSEDGS*PNRKAC GSEMEICLTTRGVWGPEVALG VGGGLQQSCRAPCGGLPKLLRS WSQSSLSPNSPGRGASSGEAA
12187	42555	A	12261	1	1938	
12188	42556	A	12262	1	2235	
12189	42557	A	12263	43	1827	THVRLAGARASPRAPRLRPRKP RPQGLPCLPGLRRARLEGGARG RADEMFLPLPAAGR VVVRRL AVVRSGSRSLSTADMTKGLVL GIYSKEKEDDVPQFTSAGENFD KLLAGKLRETLNISGPPLKAGK TRTFYGLHQDFPSVVLVGLGK KAAGIDEQENWHEGKENIRAA VAAGCRQIQDLELSSVEVDPCG DAQAAEGAVLGLYEYDDLK QKKKMAVSALYGSQDQEA QKGVLFASGQNLARQLMETPA NEMTPTRFAEIEKNLKSASSKT EVHIRPKSWIEEQAMGSFLSVA KGSDEPPVFLEIHYKSPNANE PPLVFVGKITFDSSGISIKASA NMDLMRADMGGAATICSIVS AAKLNLPIIIGLAPLCENMPSG KANKPGDVVRANKNGKTIQVDN TDA\EGRLILADALCYAHTFNP KVILNAATLTGAMDVALGSGA TGVFTNSSWLWNKLFEASNET GDRV*RMPLFDHYTRQ\VVDC QLAD\VNNIGKYRSAG\ACTAA AFVKEFVTHRKWAHLDIAGVM TNKDEVPQSTGKA*LGRPTRTL NEFLLRFSQDNCLVQILKNVFH SVLNWTVELKKVFE
12190	42558	A	12264	1	405	GIRSAEVGKHLAHILLSRQQGR RPVTLIGFSLGARVIYFCLQEM AQEKDCQGIHEDVILLGAPVEGE AKHWSLSGRVVSGRINGYCR GDWLLSFVYRTSSVQLRVAGL QPVLLQDRRVENVDLTSVVSG
12191	42559	A	12265	1	1072	
12192	42560	A	12266	105	514	

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12193	42561	A	12267	44	872	NARPWVRGLLIEFRRRGSLCRE RAREMEMGRRHLELRNRTPSD VKELVLDNSRSNEGKLEGLTDE FEELEFLSTINVGLTSIANLPKL NKLKKLELSDNRVSGGLEVL EKCPNLPHLI*GGNKIKDLSTIE PLEKLENLKSLEDFNCEVTNLN DYRENVFKLLPQLTYLDGYDR DDKEAPSDAEGYVEGLDDEE EDEDEEEYDEDAQVVEDEEDE DEEEEGEEEDVSGEEEDKGY NDGEVDDEEEDDEELGEEERGQ KRKREPEDEGEDDD
12194	42562	A	12268	1	388	KRGAAMDGRVQLIKALLALPIR PATRRWRNPIFPETFDGDTDR LPEFIEQTGSYMFVDENTFSSDA LKTALPQSLPSIASHRQTAAPS DLDSPPRYLGWPQSLSDSDSDS WPPPKGSVTFSETYFLPTP
12195	42563	A	12269	1	127	
12196	42564	A	12270	5	434	ISLRYLDGLAGPTHASAATEAS DRSEDLRWT/VCAQLIQALLAL PIRPATRRWRNPIFPETFDGDT DRLPEFIVQTCSYMI\VDENTFS SDALKVTFLITRLTGPALQWVI PYIKKESPLLNDYRGFLAEMKR VFGWED\DEDF
12197	42565	A	12271	515	1137	
12198	42566	A	12272	1	762	
12199	42567	A	12273	1	468	
12200	42568	A	12274	2716	3411	KREETKKKSKREMEVKKKQ CTYSFKSQGKFLSTHARQFSIGS QPISASQTVEEIMKSILTLQSQI NSLAAVTLQNR*GLDLLTAEKG GLCTFLGEECCFYTNQSGIA*D ATQRLQEKASEIRRLSNSYTNL WSWATWLLPFLGPVAAIILLL AFGPRIFNLLVKFVWSRIEAIKL QMV LQIEPQMSSTNNFYRGPLD *PAGTSPGLESSLKDTTAKPL LRYPAGSS
12201	42569	A	12275	8312	9221	
12202	42570	A	12276	74	471	
12203	42571	A	12277	4043	4159	LFCQSGFHSLLTPSTATCSTIR* VATSRLRPVFTCRRS
12204	42572	A	12278	1	1332	
12205	42573	B	12279	29	1316	
12206	42574	A	12280	1	580	
12207	42575	A	12281	2	710	
12208	42576	A	12282	1	1559	
12209	42577	A	12283	1179	1490	

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12210	42578	A	12284	2	313	
12211	42579	A	12285	599	743	GALART*PPQQRWVSCPR/GVP/ GAL*REFTMFLSLQAENSIDFVS RELCAHSIRKLQAHVLLIK*VFI K
12212	42580	A	12286	208	398	
12213	42581	A	12287	716	1069	
12214	42582	C	12288	326	577	
12215	42583	A	12289	188	590	
12216	42584	A	12290	860	1121	VPFLTSWVNVGFKSSALHSSAL LQFWLTLWE*LPAWARCCCL PNGSFWGPRSSRLDVAWERPV APGWREVSPLLSELWTAASGP YG
12217	42585	B	12291	1	1614	
12218	42586	B	12292	1	1080	
12219	42587	A	12293	3	219	
12220	42588	A	12294	890	1094	VESGTHLGQYKIYFGFLYQKKF SLQSHGYILFGCPQYW//ITSDC PSIPCMWYSRTL*VTWSKKQVT SE
12221	42589	C	12295	1	3912	
12222	42590	A	12296	881	1151	
12223	42591	A	12297	1	1323	
12224	42592	A	12298	1817	2284	VWDGSILYQKLGAIDGLSS*VI PLASSLQSLQYPLPSSFIQRILNT YSVKGLRSWTVDNRDVAVSS GGIWLQVEASLVLY*MLYFSIIT LLILGLVHVNFKILDSSSELITD KLCGGLGFTLYTGSKLI*SDVTF PRAFSASTQTSMLTKYTVE
12225	42593	A	12299	1	1109	
12226	42594	A	12300	1	367	
12227	42595	A	12301	1	531	
12228	42596	C	12302	1371	1746	
12229	42597	A	12303	1	645	
12230	42598	C	12304	387	680	
12231	42599	A	12305	655	2498	
12232	42600	A	12306	1	528	ENLGNTIQDTGMGKDFMTETP KAMTTKAKIDKRDLIKLSFCT AKETTIRVNRQPTWEKIFAVY PSDKGPISRIYKQLKQIYKKKSN NPIKKWAKNRNRHFSKEDIYV AKKHMEKSSSLVIRKMHKTT VGYHLMVPRMAIIKSGNNRC WRGCGE\C*WEGQLVQPLWKT VWQ
12233	42601	A	12307	1	1359	

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12234	42602	A	12308	1968	2648	TQTNLQEKNKQLHQKVGKGYE QTLKRRHLCSQQTHMQPTDT WKNAHHQLAIREMQIKTTMRY HLTPLRMAIHKSGNNSCWRC GEIGTLLHCWWDCKLVQPLWK TVWRFLKDLESEIPFDLAIPLLCI YPKDYTSFCYKDTCTCMFIAAL FTIAKTWN*PKCSSVIDWIKKM WHIY/TTMEYYGAIKRNKIMSF AGTWMKLDAILSKLTQKQKT KLRFLLISRS
12235	42603	A	12309	1	403	
12236	42604	A	12310	3	264	FFYAHIMFIAALFTIAKTWNQS KCTSMIDWIKK\MWHIHTMEY YAAIKR\RGFMSFTRTWKLEA IILSKLTQEQKTK\HHMFSLIRGS
12237	42605	A	12311	79	432	
12238	42606	A	12312	1	933	
12239	42607	A	12313	70	675	
12240	42608	A	12314	1	339	
12241	42609	A	12315	3	422	
12242	42610	A	12316	1	471	
12243	42611	A	12317	1	963	
12244	42612	A	12318	375	542	ENDKARRSDTPSML*WVEGMK *SVKAPHTLHLASDYVLEPWG GESATFIPASWDC
12245	42613	C	12319	1	2148	
12246	42614	A	12320	1	1881	
12247	42615	B	12321	1	1074	
12248	42616	C	12322	143	439	
12249	42617	C	12323	123	362	
12250	42618	A	12324	474	603	NHKNPRRKPRQYHSGHRHGQG LHV*NTKNNGNKSQNGQMGSN
12251	42619	A	12325	5169	5756	CPSLPPPHGKPAAACPRSPGGC CTPRSARTVPRGLSENSQTKCH SADLPPEGPRVFWTPPGTGAAP APPAPAPGPARCGPRRCHAWPP QRRSSGAGRSPPPRHFAEFLKM VAFLRILILRAVSLRLDLEIS* G*RP*GPSWGGPPQSTPSAASA ASKTSSPRRWSTPAWAFLARA HPRWVAPSTAAQCTAAP

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12252	42620	A	12326	21	98	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMHRDSCPLDCKVY VGNLGNNGNKTELERAFGYYG PLRSVWVARNPPGFAFVEFEDP RDAADAVRELDGRTL\CG\CRV RV\ELVRMGEK\RSRNRGPPPS\ WGRRPRDDYRR\RSPPPR\RRSP R\RRSFS\RSRSRSL*ERVGWC WAGGKREDSSERVDLSRRIF
12253	42621	A	12327	919	1043	
12254	42622	A	12328	460	657	CFSPGMWQKTHSRKHSPGAICP INPVGECLVRKIKQLD*ITWINA I*LPLRDGLFYFLNFFPCCR
12255	42623	A	12329	1	2235	
12256	42624	A	12330	1	255	
12257	42625	A	12331	2	429	CRADLNSRIDDFVPNPVAVSG ASYAVAAVTMAHYKAADSKR EQFRKYFEK\SGVLDTLTKVLV ALYEEPE\KLNSALDFLKHHLG AATP\ENPEIELLRLELAEMKEK YEAIVEENKKLKAKLAQYEP\P QEEKRAELGFFSV
12258	42626	A	12332	670	860	
12259	42627	A	12333	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFYSLEMP
12260	42628	A	12334	1	2034	
12261	42629	A	12335	1	324	
12262	42630	A	12336	2	694	FGTRGKAAMAFSVYVVNKAG GLIYQLDSYAPRAEAEKTFSSYP LDLLKLHDERVLVAFGQRDGI \RVGHAVLAINGMDVNGRYTA DGKEVLEYLGNPANYPVSIRFG RPRL\TSNEKLMLASMFHSLFAI G\SQLSPE\QGSSGIEMLETDTFK LHC\YQTLTGIF\VVV\ADPR\Q AGIDSLLRKIYEIYSDFAL\KNPF \YSLEMPIRCELFQNLKLALEV AEKAGTFGPGS
12263	42631	A	12337	2	1658	

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12264	42632	A	12338	3	997	VQKPNRQWRLVQDLRIINEAV VPLYQAVRNPYTLTSQIPEETG WFTVLDLKDALFCIAVHPDSQF LLAFEDPLNPTSQLTWTVLPQG FRDSPHLFGQALAQDLSQFSYL DTLVRLRYVDDLLAAPSETLCH QATQVLLNFLATCGYKVSCLK AQICSQQVKYLGKLSKGTRAL SEERIQPILAYPHPKTRKQLRGL LGITGFCQIWIPRYSEIARPLHTL IKKTQKANTHLVRWTPEAEAA FQVLKKALTQAPVLSLPTGQDF SLYVTEKTGIALGVLTQHYGE ERNS*LPTEYLSNIRKPLGDYY WLYRNLKRWQSYTARVIRKER
12265	42633	A	12339	3	421	
12266	42634	A	12340	3	4804	KRLNIQKTLEVAFSEAVWMQ PSVVLLDDLDLIAGLPAVPEHE HSPDAVQSQRALAHALNDMIKE FISMGSVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKDCINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
12267	42635	A	12341	1	2223	
12268	42636	A	12342	1	3864	MQWEEAEKDPGSCVFORPPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLSPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLKGFSDN

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12269	42637	A	12343	204	963	DCACTFHCRSATKIVKDLKAQ GLVKPCNSPCSTPILGVQKPNG QWRLVQDLRIIDEVVVYVDDL LLAARSKTLCHQATQALLNFLI TCDYKVSQPKAQLCSQKVLYL GLKLSKGTRVLSEERIPIPAYP HPKTPKQLRGFLGITGFCRIWIP RYSEIARPLYTLIKKTQKADTH LVEWTPAEVAFQALKEALTQ APVLSLPMGQDVPLYVTEKGTI ALGVLGVLTQVRG/LSLQPMAY LSKEMDVVAKGWPH
12270	42638	A	12344	1	1178	MPESPTLLGRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFPYQRQYPLRPEAQQLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPAPNPYTLLSQIPEEA ELFTVLDLKDFAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSQKQAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LSTSNCSNLRHSRGPSPRG SLD*SQPQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKKGL IRIYMLPLLSAPYDHLH
12271	42639	A	12345	1	841	
12272	42640	A	12346	3	1428	
12273	42641	A	12347	2	268	
12274	42642	A	12348	1	897	
12275	42643	B	12349	1	1650	
12276	42644	A	12350	232	1002	TPGSTVHAPEADQGLQKIVKDL KAQGLVKPCNSPCSTPILGVQK PNGQWRLVQDLRIIDEVVVYV DDLLAARSKTLCHQATQALL NFLITCDYKVSQPKAQLCSQKV LYLGLKLSKGTRVLSEERIPIPI AYPHPKTPKQLRGFLGITGFCRI WIPRYSEIARPLYTLIKKTQKAD THLVEWTPAEVAFQALKEAL TQAPVLSLPMGQDVPLYVTEK TGIALGVLTQVRG/LSLQP MAYLSKEMDVVAKGWPH
12277	42645	A	12351	1	2217	

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12278	42646	A	12352	1	6530	MWGS DRLAGAGGGGAAVTVA FTNARD CFLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLQHLLDQI RIVFPKAIFPVWVDQQTYIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKVVPL
12279	42647	A	12353	1734	4349	MPNRACFQCGLQGHFKKDCPS RKPQVCLTIESQEVNCLLDAGA AFSVLLSCPGQLSSRSVTIRGVL GQPVTRYFFQPLSCDWGALPFS HAFLIMPESLTPLLEIREILVKAG AIIHLNIGEGTPICRLLEEGISPE VWATEGQYQGAKNAHFVQVK LKDSTSFYQRYPLRPEAQQR LQKIVKDLKAQGLVKPYSSPCN TPILGVQKPKRQWRLVQDLRII NEAVFPLYPAIPSPYTLLSQIPEE AEWFTVLDLKD AFFCIPVHPDS QFLFAFEDPSNPTSQLTWTVLP QGFRDSPHLFGQALAQDLSQFS YLDTPVLQCMDLLAARSET LCHQATQALLNFLTTCGYKVS KPKAQLCSQQVKCLGLKLSKV TRALSEERIQPILAYPYPKTLKQ LRGFLGITGFCRIWIPRYGKIAR PLYTLIKETQKANTHLVRWTPE AEAAFHALKKALMQAPVLSLL TGQDFSSYVTKNKQTKKKK\T* IALRVLALV*GTS LQPVAYL/SK EIDVVAKGQPHCLRVVAVAV LVSEAVKIIQGRNLTVWTS HDV NGILTAKGDLWLSDNHLLKYQ ALLLEGPMRLRLCTCAALNLDTF LPHNEEKIEHNCQQVIAQTYAT RGDHLEVPLTDPNPNLYTDGRS FVEKGLQKVG YAVVSDNGILES NPLTPG TSAQLAKLTRALELGE GKRVNIYTDSKYAYLVLHAHA
12280	42648	A	12354	5	138	
12281	42649	A	12355	1	909	
12282	42650	A	12356	3	245	
12283	42651	A	12357	1	1080	

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12284	42652	A	12358	3	955	VPRKSVHSGDAEYHKVLKEEA SDSRENKVGTTWLQILSGSFAS RVTEHITQPLQESVSLWISSEQN IPPKFMGRLNKLKATYKRKYS AAKSKVEKKKKEKVFA TVTKP VG\GDKNGGT\RVVQTR\KLPR YHPTEDVPRKIVEPPQKNLFSQ HVRKTAKTALPPGTILILT\RH RGK\RVVFLK\QLASGLIL\TAP LVLNRVPLRRTHQKFVIATSTKI DISNVKIP\KKKDKTPLLTDAYL \KKKKLRKPR\HPRKGEIFD TVK RGNMRITE\QRTIDQKAVDSQIL PKIKAI PQA/LQGYLRILCLL*RN GIYPHKL VF
12285	42653	A	12359	1	555	
12286	42654	A	12360	1	300	
12287	42655	A	12361	1	588	
12288	42656	A	12362	1	264	
12289	42657	A	12363	1	870	
12290	42658	C	12364	239	400	
12291	42659	A	12365	9	98	SWKPSFSAN*HRNRKPNTTCSH SQVGVDL
12292	42660	A	12366	9	81	
12293	42661	A	12367	3	169	
12294	42662	A	12368	134	481	GCCGGTIKNSFSFPPLPNWPRFV MFPSLCVLIVETCETWICTLIVQ LPLMSENMRCLIFCSCVSLLRM MVSSFVHVHDHKVKSHSRPS/G NLRKSKEASPKTSKVGKLT VQ PSVCG
12295	42663	A	12369	41	388	SYGQMMKCQPF TFPSPGYGAG VFSSDKIGQMTFMERT*RMSCK EAAQDHTAREKEKVELKFPSLP FRRKELL*PCTWLGSPISLV TLD FPWPQGSGRLSMPVLWTCLIPG SLEIG
12296	42664	B	12370	1	909	
12297	42665	C	12371	295	2025	
12298	42666	A	12372	14	260	
12299	42667	A	12373	1	142	TCTCVFIAALFTIAKTWN*SKCP SMRDWIKKNVAH THHGILCSH KKE
12300	42668	A	12374	1	395	

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12301	42669	A	12375	2	976	REHLAEGMAVGTASADLNISA CWLRRQQISQHSARALLRDRL PPQENSSWHPAGAPLGRNFQRK EQAAIFAVLQPPLVIPRKTGSGV DLEQTPADLQKRGLTVTRKTN KQKAIASTSTERTPTQKPPFKSH QHQRPNVDKSAKMRKNQSKK AENSKNQNTSSPPKDHNSPAR EQNWMEN\EFDELTEVGFRRW VITNSSELKKHVLTCCKEAKNL EKRDMDEAGNHHSQQTNTGTE NQTPHVLTHKWELNNENTRTRI YKKHGAACLASGIYHSVDLPF WGLDLPFWDLED SGSTILGSGG QWPSSHSSTRQCTSVDSVWGL
12302	42670	B	12376	1	111	
12303	42671	A	12377	34	346	
12304	42672	A	12378	1	585	
12305	42673	A	12379	3	14703	
12306	42674	A	12380	1	636	
12307	42675	A	12381	1	1626	
12308	42676	A	12382	1	3246	
12309	42677	C	12383	62	202	
12310	42678	A	12384	1	286	
12311	42679	A	12386	1	1176	
12312	42680	C	12387	1	942	
12313	42681	A	12388	785	892	
12314	42682	A	12389	2	91	
12315	42683	A	12390	1	708	
12316	42684	A	12391	3	96	TWMKLETIILSKL*QRQKTKHR MFLIGGN
12317	42685	B	12392	1	1954	
12318	42686	A	12393	1550	1830	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKKMW HIYTMEYYAAIK/SDEFMCFAW TWMKLETIILSKLSQEHKTKHH MFSLTSGS
12319	42687	A	12394	3	553	
12320	42688	A	12395	1	1428	
12321	42689	A	12396	642	753	
12322	42690	B	12397	1	759	
12323	42691	B	12398	1	900	
12324	42692	A	12399	623	775	
12325	42693	A	12400	992	1156	
12326	42694	A	12401	86	349	

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12327	42695	A	12402	1	2521	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NIVQHINRTNDKNHMHISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKSTANIVLNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLAIRAIQEKEIKGIQLRKEE IKLSLFADDMIVHLENPIVSAQN LLKLIDNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SERIKYLGQILTRDVKDLFKEN YKPLLNDIKEDTNKWKNTPRS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKGARIAKSILYRFNAQELEKT TLKFIWNQKGARIAKSILSQKN KAGGITLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNHLIFDKPDKNKKWGND LFNKWCWENWLAICRKLKLD FLIPYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIAMGKDFMS KTPKAMATKAKIDKWDLINLK SFCTAKETTIRVNRQPIEWKIF AIYSSDKGRISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAIREMHI KTTMRHHLTSVRMAIHKKLG DWCWRGCGEIGRLLHCWWDC KLVQPLWKSVMWRFLRDLELET PFDPASPLLGIIYQKEIYKSCYYK DICT/RVCVPAALFTIANTWNQP
12328	42696	B	12403	80	5612	
12329	42697	B	12404	68	505	
12330	42698	A	12405	1	471	
12331	42699	A	12406	194	430	IAIMRLLLQISIIILSSCLREVKSM QAYRKALRKLKLADVCRYQKS LVVQKRS*ER*SLVLILILPARTF QSYLAPIC
12332	42700	A	12407	1	546	
12333	42701	A	12408	2	418	
12334	42702	A	12409	302	746	ETSHQVMDRSNPVKPALDYFS NRLVNYQISVKCSNQFKLEVCL LNAENKVVDNQAGTQGGQKLV LGANLWWPYLMHEHPAYLYS WEDGDCFTPALDPLPACDLC DQL\HLRSRQGGSVCGCDPCEQ LLLL\VSQQLQAPIDSAAAGRPV
12335	42703	A	12410	83	552	
12336	42704	A	12411	1	459	
12337	42705	A	12412	34	588	

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12338	42706	A	12413	1	466	
12339	42707	A	12414	950	1230	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGQ
12340	42708	A	12415	497	847	
12341	42709	A	12416	1	337	MGVVPEELFLEELNLSGLKWD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQHPEFAPP SHGD
12342	42710	A	12417	716	961	
12343	42711	A	12418	1	1218	
12344	42712	A	12419	1	1104	
12345	42713	A	12420	548	1078	
12346	42714	B	12421	83	345	
12347	42715	A	12422	1	681	
12348	42716	A	12423	1	1431	
12349	42717	A	12424	566	871	
12350	42718	A	12425	145	980	
12351	42719	A	12426	2	702	
12352	42720	B	12427	1	1156	
12353	42721	A	12428	188	584	
12354	42722	A	12429	1	1194	

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12355	42723	A	12430	170	1855	LLEGKLTNRKDIPHQNPICSTPS SKTKGILPISEPPSNRIFACWGK PAWTACCN/FSQGQAVKGNQL LPVSLVKRKTTTAPNTQTASPR ALADSLMQLARQVSRLESGQD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTTAPNTQTASPRALADSL MQLARQVSRLESGQINHTPNSF HIGAGGSWCLSESPCVVLNYK YPLVCGYTDGNAEVSKFGNFFL DLSRTRCLAEGNYTSGDNHTLR DPHYVEDKGHKYLVFEANTGT ENGYQGEESLFNKAYYGGGTN FFRKESQKLQQSACKRDAELA NGALGIIELNNDYTLKKVMKPL ITSNTVTDEIERANVFKMNGKW YLFTDSRGSKMTIDGINSNDIY MLGYVSNSLTGPYKPLNKTGL VLQMGLDPNDVTFTYSHFAVP QAKGNVITSYMTNRGFFED KKATFAPSFLMNIKGNKTSVVK NSIRREGFCFRNHHQTGFSPA GANQRGPLAATLSGPGGEGQS AVARLTGEKKNHPGAQYANRL SPRVGRFINAAGTTGFPTGKRA GFCFRNHHQTGFSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFPTGKRAV
12356	42724	A	12431	851	2237	
12357	42725	A	12432	2	2346	
12358	42726	B	12433	329	479	
12359	42727	B	12434	656	2404	
12360	42728	B	12435	486	834	
12361	42729	A	12436	1	693	
12362	42730	A	12437	1	114	
12363	42731	A	12438	152	391	AGGWALPSLGLPSWTSRCPWR RGSAGLLLEASVPVQQ*PKLLD RLSRRWPGEGHPRPARVRSCM ALGPRRLGVLCQEPS
12364	42732	A	12439	1	1707	
12365	42733	A	12440	1	897	
12366	42734	A	12441	36	420	
12367	42735	A	12442	2	217	
12368	42736	A	12443	1	903	
12369	42737	A	12444	1	1626	
12370	42738	B	12445	107	757	

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12371	42739	A	12446	1	1655	MGTVPRSAGQETWVLCEHIIGG ERSFTEYSLCHRIESSTSSIKLEL GGNNVEPLESSRVFDSTVQNEE ADAVSTGEEGVTHEGTQGGKV IPQMHMGSLQPKSFSQNRSQV NNDMIVTDNNGAVKFPQLCKF CDVRFSTCDNQKSCMSNCSITSI CEKPQEVCAVCWMSEETN VMYSPLPCKFLHLSPIEVLPIRS PVNQSGRCKIRHIGSNNRLQRS TCQNTGWESAHVMKTPGFREY NTSNPDLLLVIQVTGISLLPPL GVAISVIIIIFYCYRVNRQQLSS TWETGKTRKLMEFSEHCAILE DDRSDISSTCANNINHNTELLPI ELDTLVGKGRFAEVYKAKLKQ NTSEQF*DSGQFKILFPIEYAS WKTEKDIFSDINLKHENILQFLT AEERKTELKGQYWLITAFHAK GNLQEYLTRHVISWEDLRKLG SLARGIAHLHSDHTPCGRPKMP IVHRDLKSSNILVKNDLTCCLC DFGLSLRLDPTLSVDDLANSQ CYEVCSSGRFLVTIFKGNRLRE RTEKNTRITPRDWVYEWLW
12372	42740	A	12447	1555	3277	RAAGSAMGRGLLRGLWPLHIV LWTRIASTIPPHVQKSVNNDMI VTDNNGAVKFPQLCKFCDVRF STCDNQKSCMSNCSITSICEKPQ EVCVAVWRKNDENITLETVCH DPKLPYHDFILEDAAAPKCMK EKKKPGETFFMCSCSSDECNDN IIFSEEYNTSNPDLLLVIQVTGI SLLPPLGVAISVIIIIFYCYRVNRQ QKLSSTWETGKTRKLMEFSEH CAILED DRSDISSTCANNINHN TELLPIELDTLVGKGRFAEVYK AKLKQNTSEQFETVAVKIFPYE EYASWKTEKDIFSDINLKHENIL QFLTAEERKTELKGQYWLITAF HAKGNLQEYLTRHVISWEDLR KLGSSLARGIAHLHSDHTPCGR PKMPIVHRDLNSSNILVKNDLT CCLCDFGLSLRLDPTLSVDDLA NSGQVGTARYMAPEVLESRMN LENAESFKHTDVYSMALVLWE MTSRCNALGEVKDYEPFGSK VREHPCVESMKDNVLRDRGRP EIPSWLNLHQGIQMVCELTTEC CDHDPYARLTAQCVAERFSELE HLDRLSGRSCSEEKIPEDGSLNT

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12373	42741	A	12448	3	1354	
12374	42742	A	12449	1	168	
12375	42743	A	12450	2	147	
12376	42744	A	12451	3	523	LQFFRRSEVKMKNHLLFWGVL AVFIKAVHVKAQEDERIVLVDN KCKCARITSRIIRSSDPNEDIVE RNIR\IVPLNNRENISDPTSP\ER TRFVY\HLSDLCK\CDPTEVEL\A DNQIVTAT\QSNICGWMTPVQS TCYTLSTGNKCYTAVVPL\VYG GETKMOVETALTPDACYPD
12377	42745	A	12452	3	274	
12378	42746	A	12453	1	120	
12379	42747	A	12454	119	461	PVPQDLQAAVLGRRTALFK\AV KTGTLQVCKRLLLSF\VCL/CPA PRGRQASLSCGGLHPVRASWLL CLPKQAWAMAGAPPPAWLPPC SLISDCCASNQRDSVGVVPSEPG VGYSLV
12380	42748	A	12455	2	370	
12381	42749	A	12456	1	3135	
12382	42750	A	12457	1	942	
12383	42751	A	12458	1	462	
12384	42752	A	12459	1	297	
12385	42753	A	12460	935	1338	CTDGFLVWMSFLFVSFPLPPCS LISDCSASNERDSVGVGPSEPG AGYNLVVRRFLSPSEKRSIRV* VTRFSRCRPSPLSLTRKGNSLTP CASQVRQCLALFRLAHGVRTH SPAPTVWHSLPKVGPFLSNSVP
12386	42754	A	12461	1	268	
12387	42755	A	12462	3	479	
12388	42756	A	12463	1	262	
12389	42757	A	12464	1	304	MAGAPAPASLPPCSLISDCCAS NQRDSMGVGPSEPGAGYNLVP V\EKRSIRVGVGTGFSRCCPSPLSL TRKGNSLTPWASQVRQCLALL QLAHGRGSPNPRP
12390	42758	A	12465	1	512	
12391	42759	B	12466	1	1257	
12392	42760	A	12467	1	705	
12393	42761	A	12468	1	3039	
12394	42762	B	12469	66	467	
12395	42763	C	12470	360	747	

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12396	42764	A	12471	3771	4703	SFQFFCSVFSPSLWFYLLLVFDD GDVQMRFRGCGPCFLLVFLITD RTLSCRSVGIPCRVRCQCA\LLG GASQLGCSGVKGSRDPLEEAV CPFS\DL\QLRAGGNTALFKAVR QGHLSLQRLLSF\VCCLCPAPRG GAYRGGQASLSCGGLHPV*AS\ RLLCLPKQAWAMAGAPPPASL L\PC\NLISDCCASNQRDSVGVG S\ERPGVGYSLVVRRFLSRSEKR NIRGG\VTRFSRCRPSPLSLTRK GNSLTPCASQSEGNAIGPAFGF AHGARTHVALRPTVWHSCE MNPVPQMEMQKSPVFCVAHA GGCRPEL
12397	42765	A	12472	1	1038	
12398	42766	A	12473	27	428	LADRSAIPGFAIFAVTFLALVG AVLYLYPWTLKPC*SHY*GIN LVVAV*VKTT*GKNCKMV*L IL*RVTLPS*RFGLRLEKAF*M GHLIK*LGKNNMKMPSCNWS LF*GTS*KNEKEGTSVNIFSLTP
12399	42767	A	12474	107	362	NKPCEEFYFLAALIYLLYHGRK KADTKIPP*ISRFFLILYPSHELT FIVIHIMCDLGCTWAICFLTSE EVQKKLYEEINQVFG
12400	42768	A	12475	193	637	TSSEVVKKQIAQVHNFAVIMQL ARENIILSS/EDLLVIKVPY*GV NENMLTEVPSFSFFYDVP*NRL QLHEGIFILFFPSHVFIK*PI*KAF SNLRPNCAMILLEANDFLIFKC TTHYHLCNRLHSKTKHMLAEG HVLGLWVGEPFI
12401	42769	A	12476	1	1930	
12402	42770	A	12477	1	362	
12403	42771	A	12478	58	160	GVSLQSTSEEGRGMRQE*TERE IKVTCRSHYRLA
12404	42772	A	12479	3	410	
12405	42773	A	12480	1	807	
12406	42774	A	12481	154	375	
12407	42775	A	12482	2	512	
12408	42776	C	12483	29	455	
12409	42777	A	12484	209	433	
12410	42778	A	12485	1	1546	
12411	42779	A	12486	3	931	
12412	42780	A	12487	1	363	
12413	42781	A	12488	1	351	
12414	42782	B	12489	82	263	
12415	42783	A	12490	1	1878	
12416	42784	A	12491	24	242	
12417	42785	A	12492	1	3558	

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12418	42786	A	12493	2	478	HNSLKSDENKENSFSADHVTTA VEKSKESQVTADDLEEEKAKA ELIMDDDRTVDPLLSKSQSILIS TSATASSKKTIEDRNIKNKKSTN NRASSASARLMTSEFLKKSSSK RRTPSTTTSSHVLGTLKVLDQK PFTETEA*EPDRADNIRGSCLFR
12419	42787	A	12494	1	1047	
12420	42788	A	12495	1	1055	
12421	42789	A	12496	212	611	
12422	42790	A	12497	2	195	YVMGRNDGGYLMIDSKTAEIK FVKNMNRDSTFIVNKTITAEVL AID\RYSGKNCLLISWSYICG
12423	42791	A	12498	1	429	
12424	42792	A	12499	1	503	
12425	42793	A	12500	3	825	GTTKWQTVRRQKREWIKFAAA CREGEDNSKRNPAAK*SDLQNS LLPALY*KHVRSDCESNQKITY RISGVGIDRPPYGVFTINPRTGEI NITSVVDREITPLFLIYCRLNS RGEDLERPLELRVKVMDINDN APVFSQSVYTASIEENS DAN TL VVKLCATDADEENHLNSKIA Y KIVSQEPGAPMFILNRYTGEV CTMSSFLDREQHSMYNLVVRG SDRDGAADGLSSECDCRIVLD VNDNFPT/FRENFQNSSRFSNS LLSSFDQWRKL
12426	42794	A	12501	986	4030	KQRLTWTFSPGKSETMMGLFP RTTGALAI FVVVILVHGELRIET KGQYDEEEMTMQAKRRQKR EWWKFAKPCREGEDNSKRNPAA KITSDYQATQKITYRISGVGIDQ PPFGIFVVDKNTGDINITAIVDR EETPSFLITCRALNAQGLDVEKP LILTVKILDINDNPPVFSQQIFM GEIEENSASNSLVMLNATDAD EPNHLNSKIAFKIVSQEPAGTPM FLLSRNTGEVRTLTNSLDREQA SSYRLVVSGA
12427	42795	B	12502	1	3572	
12428	42796	A	12503	1	594	
12429	42797	A	12504	1	612	
12430	42798	B	12505	200	532	
12431	42799	A	12506	2	735	
12432	42800	A	12507	5	400	

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12433	42801	A	12508	2	1260	GQAASPASPASPAMAWAA LLGLLVALLLLLLLSRRRTRRP GEPPLDLGSIPWLGYALDFGKD AASFLTRMKEKHGDIFILVGG RYVTVLLDPHSYDAVVWEPT RLDFHAYAIFLMERIFDVQLPH YSPSDEKARMKLTLLHRELQAL TEAMYTNLHAVLLGDTEAGS GWHMGLLDF/CLQLPAQSRLP DSL RN*GAATHP*KPGPGPRPLS *CLPHLSPARPAAPQTGPWLPV SGGQGPVHVQCQKSPVEAAIPSQ AGQAGPPEQMAGELPAAPGGD GCVRGDAGTGPAAA VGHTE YGSRCLLAPALPSQES*SPGCCP RRAREYPLASGAACLADDHSPT EGSRQHTC/DLIAC*VRASGLQL PPSSPARL\GGPGHAHGRRERIQ PATW*PPPPLPLEPPERPRNLH RPRGI
12434	42802	A	12509	3	466	
12435	42803	A	12510	1	1134	
12436	42804	A	12511	2	1211	
12437	42805	A	12512	2	405	HEMLLASEIKHLPRRLIGQERE TQTSELKIKRRGNEEAPS/PPPSS AYERGTRKPDDRYDTPTSKKK VRIKDRNKLSTEERRKLFEQEV AQREAQKQQQQMQNLGMTSP LPYDSLGYNAPHHPFAGYPPGY PMQA
12438	42806	A	12513	191	898	
12439	42807	A	12514	1	270	
12440	42808	A	12515	2	1328	
12441	42809	A	12516	1	2868	
12442	42810	A	12517	1	1254	
12443	42811	A	12518	1	576	

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12444	42812	A	12519	1919	3044	HQGPSTPPSWAMSGPPTPLSRE DWHQGPSTPPSWAMSEPPT/SSI QGLASGAVHTILLGDVRATYTS IQGVTSQVSQVSRAAQMAYPSS RILQLSKPKAPATLLEWDPVP KPKPHVSDHNRLHLAKVPRK EGSGKKVGAFPEIKGPEAFRDK ARAMESQSNDMPFDELLALYG YEASDPISDRESEGGDVPNLP DMTLDKEQIAKDLLSGEEEEET QSSADDLTSPVTSHEASDLFPN RSGCLLAGEAESSRGLLPRAQP VPRGAGLADNSRGALLRAHGT VRVGTTATVKPADAPPESPRDR RSRNDSHRPTGPSESERQPQSN QPTLLLRGHGTIRVRTTATVKP ADAPAESPRDRSRNDSHGQSS
12445	42813	A	12520	413	1412	
12446	42814	A	12521	293	412	NHLSVAGNGSSPCGL*AGALGL LLWLLASSGHRVLSGMI
12447	42815	A	12522	2	181	
12448	42816	A	12523	1	277	
12449	42817	A	12524	1	739	
12450	42818	A	12525	1	326	
12451	42819	A	12526	3	566	
12452	42820	A	12527	1	465	
12453	42821	A	12528	1	1167	
12454	42822	A	12529	260	395	EVATATPTLSNHYPDQSAAIN/D QG*PLHQKQDHLQKAQMNISI F
12455	42823	A	12530	209	958	FRCVLISFWSHKLHLWYHEGRI VPSDRIVPPHGI VSSHGVALPQR ILMRQFTLLEGLNKDGRFLIQLS GTAPWSSYFNSVAKFGVIHRIH SFFLSHNGHKAVAPLDLLSNVG GSCLCGDASSF\TPSRITMTSK SWLARSVAEMSYR/WTALVNH VADDQRGHQKNVIALDWVINR NVQLVNRNHLPRCSCFLDHL AHRGTNDHAFQVTHSEHEAQ LAISDGNHSMMAENQSFCSVS LSCFHENAA
12456	42824	A	12531	1	1965	
12457	42825	C	12532	520	684	

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12458	42826	A	12533	701	1307	GRHLTTNHTA AVVVFPFRPLCS SFFRYSGFRGVAGATASGRGQG PAG*DNCQRAWRGAFYKFQAT LSAGAGTRAEEGSDGDGEAAE PGAGTAREPARLRGYRSRRFVL DGRRCCLCYFKNPHDPLPLGHL DIAEACFSYQRADEAAEQPAHF QVRSAGAATVLEVGTRALRGV HLLRAHRGIWAQAWSPVSFLQ AVLPAWLL
12459	42827	A	12534	1	1356	
12460	42828	B	12535	1	1449	
12461	42829	A	12536	3	2449	
12462	42830	A	12537	1	3327	
12463	42831	A	12538	1	1359	
12464	42832	A	12539	1	672	
12465	42833	A	12540	1	1281	
12466	42834	A	12541	1	399	
12467	42835	A	12542	1	399	
12468	42836	A	12543	171	426	PVSCATGEEEDNVLFPGDGLP R**PGKLWCEFHASISQALGQ HPRRSVLDTDQSHVPLVRRKTT CFSQRAMISPDDDPSEAGALS RNNLLAPYSALTFMENGNCLL QLFQLGKLLVQASHLHGQLLV FVQKIISM
12469	42837	A	12544	1	988	
12470	42838	A	12545	3	129	LFHPCQDSQQHH*CVCCRLTGH GAA*VHGPCQAVQTYRASH
12471	42839	C	12546	532	1101	
12472	42840	A	12547	197	355	
12473	42841	A	12548	1	1275	
12474	42842	A	12549	3	131	

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12475	42843	A	12550	1746	3504	ESDPSNSTTSMRDRTLL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPDISHQQAALLRTY LKNLSPYINSTPPIFGPLTTQTTI PVAAPLCISWQRPTGIPLGNLSP SRCSFTLHLRSPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPCLSLHPWLSSPCSSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHENRTFPSTQLPHQSPL QPLTAAALAGSLGVWVQDTPF STPSHLFTLHLQFCLAQGLFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPLPLMVGLGLSASTVA LGTGIAGISTSVMTFRSLSNDFS ASITDISQTL SVLQAQVDSLAA VVLQGQLRGLDLLTAEGGLCI FLNECCFYLNQSGLVYDNIKK LKDRAQKLANQASNYAESPWA LSNWMSWVLPVSPLIPIFLLLL FGPCIFRLVSQFIQNRIQAITNHS IRQMFLLTSPQYHPLPQDLPSA
12476	42844	A	12551	2	394	
12477	42845	A	12552	1	882	
12478	42846	A	12553	45	409	
12479	42847	A	12554	1	1035	
12480	42848	A	12555	118	312	
12481	42849	A	12556	1	1083	
12482	42850	B	12557	1	1122	
12483	42851	A	12558	97	439	
12484	42852	A	12559	1	450	
12485	42853	A	12560	1	471	

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12486	42854	A	12561	2	1407	WGKNRAEKLET LKSRVPLLLQ RNAVPHQQWNKAGRRMTLTS* EKKASDD/PNYSKLQEEIQTG KEVKHFEKNLDECITRITNREK CLKELMELKAKARELREECRSL RSQCDQLEERVSVMEEIQTIRE YYKHL YENKLQNL EEMDKFLD TYTLRRLNQEEVESLNR PITGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLLKLFQSIEKEGI LPNSFYEASIIIPKQGRD TTKK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSRNVIIHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGI DETYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEV LARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSK VSGY KINVQISQAFLYTNYRQSAKS
12487	42855	A	12562	1	846	
12488	42856	A	12563	1	1281	
12489	42857	B	12564	1	274	
12490	42858	B	12565	1	2265	
12491	42859	A	12566	1	2742	
12492	42860	A	12567	1	1272	

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12493	42861	A	12568	222	2130	RKKNNKKK*TKPPRNMGLEKT KMSDWCT*K*RGAWNQV/AK TLCRILSRRT/YPNLARQADIQIQ EIQRTPQRYSSRRATPKHIIVRF TKVEMKEKMLRAAREKGRVT HKGKPIRLTADLSAETLQARRE WGQIFNILKEKNFQPRISYPAKL SFISEGEIKPFTDKQMLRDFVTT RPALKELLKEVLNMERNNRKK LNRPTGSEIVAIINSLPTKKSPG PDGFTAEFYQRYKEELVPFLK LFQSKEKEGIHPNSFDEASIILIP KAGRDTTTKDNFRPISLMNIDA KILNKILANQIQQHIKKLIHHDQ VGFIPGMQGWFNICQSINVIQHI NRTKDKNHVIISIDAEKAFDKIQ QRFMLKTLNKLGIDRMYLKIIR AIYDKPTANIILNGQKLEAFPLK MGTRQGCPLSPLLFNIVLEVLA RAIRQEKEIKHIQLGKKEVILSL FADDMIVYLENSIVSAQNLLKLI SNFSKVSGYKINVQKSHAFHT NNRQTESQIMSELPFTIASKRIK YLGQTLTKDVKDLFKENYKPLL NEIKEDTKKWKHIPCSWVGRIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRAHT AKSILSQKNKAGGITLPDFQLY CKATVTKTAWY
12494	42862	A	12569	1	474	
12495	42863	A	12570	1	1197	
12496	42864	A	12571	1	1518	
12497	42865	A	12572	1	3189	
12498	42866	A	12573	1	2199	
12499	42867	A	12574	3	2820	ENKDDTYQNLWDAFKAVCRG KFIALNAHKKRQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTIQTITI REYYKHLIYANKLKNLEEMDKF LDTYTLPRLNQEEVESLNRPTG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFR
12500	42868	B	12575	1	1593	

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12501	42869	A	12576	1	3549	MGDFNTPLSTLDRSRQKVNK DTQELNSALHQVDLIDYRTLH HKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHNKMKAEIKMFF ETNKNKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EVTKIRAELEKETQKTLQKINE SRSWFFERINKIDRMLARLIKK KREKNQIDTIKNDK
12502	42870	A	12577	1	2724	
12503	42871	A	12578	1	3567	
12504	42872	B	12579	709	2064	
12505	42873	A	12580	1	3370	
12506	42874	A	12581	1	2024	MGFYHVGQAGTELLTSNDPLT SASQSARITGKALQKPTEVPVP YEKMLQDQSALIVQGLPEGVA FKHPENYDLATLKWILENTAGI SFIINSATIEPPAAQPMSTHMG HSLCVLVVETHAKPVAVQSSSF TRNPEVISLEVAAVTVKEESED PDYDYITFKDLPGIAYETKAYV LWPQLSKICKSKNGDKNKAYRG QQCRLRQQNPLAALTGKISVSV YVSHPSLRVSIGWTRQVARQT MQKDRDGPLKNEGEKNCAGSE KNTLTSQLELEKQEQTTHSKAS RRQEITKIRAELEKETQKTV EK INESRSWFFERINKIDRPLARLIK KKREKNQVDAIKNDKGDITDP TEIQTIREYYKHL YANKLENV EEMDKFLDTYTLPRLNQEEVES LNRPTGSEIVAINSLPTKKSPG PDGFTAIFYQRYKEELVPFLK LFQSIEKEGILPNSFYEASIIIAK PGRDTTKKENFRPISLMNIDAKI LNKILAKRIQQHIKKLIHHDQV GFIPGMQGWFNIRKSINVIQHIN RAKDKKHMIIISIDAEKAFDKIQ QPFMLKSLNKL/DIGKNYFKVH MGPKKSPCRQVNPKEQSWR HHST*LQTLQGYSNQNSMVLV PKQRYRSMEQNTALRN NATYL QLSDL*QT*EKQAMGKGFP**
12507	42875	A	12582	722	4214	

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12508	42876	A	12583	228	1152	KNRDYNKLSLRPQCQNQTRTQN *ESHKPLNYMETEQPAPE*LL DT*R\MKAEIKMFFETNENKDT TYQNLWDAFKATASKTNKEKE KNQIDTIKNDKGDITTDPTIEQT TIREYYKHLKYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGAEIVAIINSLPTKKSPGPDGF TAEFYQRYKEELIGWLRESVSK ICKLFDHQVQVITGRLLIRFQIAF GTVVLCQLTRHIDVFVGKRLA NARFAPSLGGAPDLFTLKPCFV AVETQGDLPQATTVDIDGCL GKPANVQVALDLVDKGFQQW
12509	42877	A	12584	1	2028	
12510	42878	A	12585	2	2264	
12511	42879	A	12586	1	2130	
12512	42880	A	12587	1	2900	MENDFDELREEGFRQSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERVSAE DEMNEKMGEGKFREKRIKRN QSLQEIWDYVVRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQTITSEYYKHLTYN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPIITGAE
12513	42881	A	12588	1	2745	
12514	42882	B	12589	1	3288	
12515	42883	A	12590	1090	2526	
12516	42884	A	12591	1	3242	
12517	42885	A	12592	3862	8976	RAKSPANIIMTGSNSHITILT VNGLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSLQRLDLSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDYRTLHPKST EYTTFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
12518	42886	A	12593	1	1000	

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12519	42887	A	12594	1	979	MNNAKENFLGRFQDGRIGTAP VYSPQHQRNRRRVISALPTEPPL VIPRQTGFGVDLQQTPTDLQLR VLTVRRKTTKQEGHSTKTPSVR YHHQRPKEDKTTKMGRNQSRK AENSKNESASSPPKECSSSPATE QSWMENDFDKYTEVGFRQLVI TNFSELKEDVQTHHKEAKNLE KRLDEWLTRINSIENTLIDLMEL KTMARELRDSCSFQRQFDQVE ERVSVIEDQMNMKREEKFRE KKMLEVLPRAIRQEKEIKGIQL GKEEVKLSLFADNMTVYLENPI IS\PKISLS**ATSAKSQDIKSMC KNHKHSYTPITDKQRAKS
12520	42888	A	12595	1140	2210	KPWHKNFVTHAQASIADLIKW KKGYYQ*LKIKLMK*SKKTRNTN YHQNTINISMQIN*KI*KKWRNS WHTLSQY*TRKKLNL*IDQ*Q ALKL/QAIHSLPTKNVQGMQMD SQSNTTRVWGILARAIRQEKEI KDIQLENEEVKLSLFADDMTVY LENSIVSAQNLLKLRIKYLGIQL TTDVKDLFKENYKPLLNIKED TNKWKNIPCSWIRGINIMKMAI LPKLIYRFNAIPIKLPMTFFTELE KATLKFIWNQKRAHIAKTILSK KNKAGGIMLPDFKLYYKATAT KAAWYWYQNRDIDKKLTQIYK KKTNNPIKKWAKDMNRHLSKE DIYGANRHMKKCSSSLVIREKQ IKTTMR
12521	42889	A	12596	520	697	GLCSVPLLCISVLVPVPCCFGYC SLVV*FEVR*SDASSFVLLA*DF LGNAVSLVPYEL
12522	42890	A	12597	1	1410	
12523	42891	A	12598	1	1461	
12524	42892	A	12599	77	457	QALKLRQ*LIAYQPKRVQDQM DSQTNSARGTKRSWYHSF*NYS N/PTEKEGILLNSFYEAGIILPKP GRDTTKKENFRPISLMSINAKIL NKILANRILQHIKKLNTIKSASS LGCKAGSTYANQ

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12525	42893	A	12600	1	919	MGDFNTPLSTLDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNCLSDHSA IKLELRIKKLTQNCSTTWKLNN MLNDYWEHNKMKAIEIKMFF ETNKNKDTTYQNLWDTLKAVC RGKFKALNAHKRKKERSQIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKETETQKTLQRLMN PGAVLEVLAIRAIQKEIKGIQL GKEEVKLSLFADDMIVYLENP MSQPKISLS**ATSAKSQDIKSIY KNHQHSYTPIRDKQRAKS
12526	42894	A	12601	1	1264	MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIIINSLPTQKSSGPD GFTAIFYQRYKEELVPFLKLKLF QSIEKEGILPNSFYEASIIIPKPG RYTHKKNNFRPISLMNIDAKIL NKILANRIQQHIKKLIHQDQVGI IPGMQSWFNIHKSINVIQHINRT KDKNHMIIISIDA EKAFDKIQPF MLKTLNKLKIPKNPTYKGCE GPLQELQITAQRNKGRHKQM EEHPMLMDRKNEYHKNHGHTPK VIYRFNVIPIKLPMFTFFSELEKST LKFIWNQKRARIAKTILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEM TPHIYNHLIFDKPDKNKQWGK DSL FNKWCWENWLAIGRQLKL DPFLTPYTKINSRWIKDLNVRP KTIKTLEENLGNTIQDISMGKDF MSKTPKAMATKAKMDKWDLI KLKSFCTAKETTIRQSWPEMTK FTFSSNTDVKNWKHKGNNIGR HKTSVNTCKMDSGLVLERWM EWNPGFPLSIDAKCHKDLPRDI QFDSEKGVDFVLNYSKANMR WAGSMFL*FIESF*HEWLLNFV KGLFCIY*DNHVVFVFGSVYML
12527	42895	B	12602	1	1827	
12528	42896	B	12603	13	1377	
12529	42897	A	12604	557	664	KTPLSQPKISLS**ATTAKSQDT KSVYKNQQHSYT

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12530	42898	A	12605	77	1866	QAPKLRQ*LIAYQPKKVQDQTD SQPNSTRGTTKSWYHSF*NFSN/ PIEKEGIFPNLFYEANILIPKGR DTTKKENFRPISLMNVNAKILN KLLANQIQHIKKLIHNNQVGFI PGMQGWFNICKSINVQHINRT KDKNHRISIDA EKAFNKIQQPF MLKTLNKLDDMIVYLENPIVSA KNLLKLISNFSKVSQYKINVQK SQAFLYTNNRQAESQIMSAVSF TIASKRIKYLGIQLTRDVKDLFK ENYKPVLNKIKEDTNKWKNI PSLWIGRVNIMKMAILPKVIYRFN AIPKLPMTFFTELEKTTLKFIW NQKRAHIAKTILSKKNKAGGIT LPDFKLYYKATVTKTAWHWY QNRDIDQWNRTEPSEIIPHIYNH LIFDKLDKNKTLGKDYLFNKRC WENWLAICRKLKLDPFLTRYT KINSRWIKDLNIRPKTIKLEEN LGDTIQDIGMGKDFITKTPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTWENIFAIPYPSDK GLISRIYKELKQIYKKKSNNPIK KWAKDMNRYFSKEDIYAANR HMKKCSSSLALREMQIKTTMR YHLIPVRMAIHKKSGNNRCW
12531	42899	A	12606	67	243	GLCCVPLIYISVLVPVPCCFGYC SLVV*FEVR*HDASSFVLLA*D* LGDVGSFLVPYEL
12532	42900	A	12607	1554	1692	
12533	42901	A	12608	640	816	GLCSVALVCISVLVPVPCCFGY CSLVV*FEVR*HDASSFVLFAD* *LGNVDSLLVPYEL
12534	42902	A	12609	1626	1739	

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12535	42903	A	12610	1	2014	MKREGSLEKKRIKRNEQSLQEI CDYVKRANLRLIGGPESDGENG TKLENTLQDMQEKFPNLARQA NIQIQEIQRTPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAREKG QVTHKGKSIRLTADLSAETLQA RREWGPIFNILKEKNFQPRISYP GKLSFISEGEIKSFTDKQMLRDF VTTRPALKELLKEALNMEKNK QYQPPQKHAKLTREARANTFK PSRRREITKIRAELEIETPKTAQ KINESRSWFSEIRINKIDRPLARL RKKKREKNQIDTIKNDEGDITT HPTEIHTIIREYYKHLYANKLEN LEEMDKFLDTYTLPRPNQEEVE SLNGPIAGSEIQAIINSLPTKKSP GPDGFYQRYKEELVPFRLKLFQ SIEKEGILPNSFYEASIIIPKPGR DTTKKENFRPISLLNINAKILNKI LANRIQQHIKLMHHDQVGFIP GMQGWFNIRKSINVIQHINRTK DKNHMIISIDAEKAFDKIQQPF MLKTLNKLIGDGTYHKIIRANY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAIR QEKETEGIQLGKEEVKLSLFAD DMIVYLENPMMSQPKISLS**ATS AKSQDTKSMCKNHHKYSYTPIT DKQRAKSSVNSPFTIASKRIKYL GIQLTRYVKDLFKERSMK
12536	42904	A	12611	1	700	MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLSTKKSPGPD GFIAQFYQRTKDKNHMIISIDAE KAFDKIQQHFMKTLNKLIGDGT TYLKIIRAVYDKPTASIILNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLGKE EVKLSLFADDMIVYLENPMMSQ PKISLS**ANSAKSQDIKSMCKN LKHSYTLITDKQRAKSSVNSHS QLLORE
12537	42905	A	12613	1	1765	
12538	42906	A	12614	1	2310	

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12539	42907	A	12615	1	836	MENEFDELTEVHFRRWVITNSS ELKEHVL TQCEEAKNLARRNK LENLEEMDKFLATYTFPSLNQE EVESLNRPTSSIEEAAINS LPTK KHPPGPDGFTAKFYQRYKEELHI NRAKDKNHMII SIDA EKA FDKI QHPVKLKILNKL GIDGTYLKIIR AIYDKPTANLILNGQKLEAFPL KTGTRQGCP LSP LFNIVLEVLA RAIRQEKEIKGIQLGKEEVKLSL FADD\RLYI*GTPLSQPKISLS** ATSAKSQDTKSMYKNHKHSYT PTTDKQRAKS
12540	42908	A	12616	355	4502	QSARFRGRRTLRRPGVGYSLV *FEVR*CDASSFVLLA*DCLGN AGSFLVPYEL
12541	42909	A	12617	248	362	
12542	42910	A	12618	529	680	YYTRCSKWWNCSVLP*YIYNF HLPHGKLNKNTDYIKKKLH DFF KNSKHI
12543	42911	A	12619	1	641	
12544	42912	B	12620	36	48	
12545	42913	A	12621	1	326	
12546	42914	A	12622	1	444	PGSTHASAHACERLQTRTLRAF SSQRRFPATASRASLSSNMAKIS SPTETERCIESLIAVFQKYAGKD GYN YTL SKTEFLSFMNTELA AF TKNQKDPGCP*PHDGRKLGQPT VDGQLDFSEFLNLIGG\QAMAC HDSFLKAVPSQKRT
12547	42915	A	12623	2	6008	
12548	42916	A	12624	530	856	

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12549	42917	A	12625	1	952	MAARGTGDKVKPGCEEAGAAF ELPPSVYAAALHESHQHQP CGARAQRVPGGIVTEPLTCTPP KDMVFLSDDGDDDDDDND GGGDDNDGNDNDGNDNDGND DDGDDNDGDDGDDNDGNDGND NDGNDNDGDDNDSDSNGND GDGDDGVDGDDSDGNDGND DDGDDSDGSDNGYDDGDD GNDGDDGSDSDSDNDGDD NGDGDGDDGGGDDDDNGHDD DGDMMMMIVMMVMVMMVV MMVMVMVVVVQLRKRAEA SVSEAKCSINVSDNDGNDGND DGDDSDGDDDDGGGDDGDD SELTNQFPTNHSGMKASKLRK DSDHREW*W**WWWWCN*GR EQRPVFLKQSAQLMSVMIMMM VMVMVMVMVMVMVMVMVM VVMVIVNSPINSRLITQA
12550	42918	A	12626	3	380	
12551	42919	A	12627	5	765	RQWEVGRWSGTTIFSCFKKTL YFTNPSPSSSLVTILRREVTH/ CGGAPEQRYQIIPVCVAARLPT RAQDVLD AHLSEVN AVRF GPN SSLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDFDPS VRNSAPVAWDCALSDLHTGGG YQVLAATYNQAAQLWKVGEA QSKETLSGHKDKVTA AKFKLT RHQAVTGSRDRTVKEWDLGRA YSPKRQRPSRTGHDDGGFVE KKRGKCGEKRDQIVTVSV
12552	42920	B	12628	1	2802	
12553	42921	A	12629	458	708	QNRHRHHGPFMSVAVSSQLLD TPAERLSLHTWKIAQRPRGRGP HFPDGA V/QAETLPQTGRPRGR GTPHFPDGAASSFGYCSLVA
12554	42922	A	12630	2300	6491	EGLEALIHQERLSYWANQVSED RPVCKAIIQKGKQFGLVDTGAD VSHALNQWPKNWPKQKAVTG LVGIGTASEVYQSMEILHCLGP DNQESTVQPMITSIPNLWGRD LLQQWGAEITMPAPLYSPTSQK IMTKMGYIPGKGLGKNEDGIK VPVEAKINQEREGIGYPFLGAV TVEPPKPIPLTWKTEKPVWVNQ WPLPKQKLEALHLLANEQLEK GHIEPSFSPWNSPVFIQKKS GK WHTLTDLRAVNAV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12555	42923	A	12631	1	434	MTVSKNKCHTKGGKKGTEKK VVASFSKIYWYNVKAPAMFSIR NIGKALVIGTHGTDVSDGFKG GLIEIPDSIGKDKEKACRSIYPLH DVFVRKVKMLKKPKFELGKLM ELHGEGRSSGKATGNESGA/KV E*ADGYGSPAQKSF
12556	42924	A	12632	1	642	
12557	42925	A	12633	260	534	
12558	42926	A	12634	1	438	
12559	42927	C	12635	391	750	
12560	42928	A	12636	199	451	
12561	42929	A	12637	120	992	RDRIPGPVCKGKWKNKERILIFS SRGINFRTRHLMQDLRMLMPH SK\HDTNMARSDNLSVINEGCE MNNWLRCIYFEAKKKQDLYM WLSNSPDGPSAKFLVQNIHTLA ELKMTGNCLKGSRPLLSFDPAF DELPHYALLKELLIQIFSTPRYH PKSQPFVDHVFTFTILDNRIWFR NFQIIEEDAALVEIGPRFVLNLIK IFQGSFGGPTLYENPHYQSPNM HRRVIRSITAAKYREKQQVKDV QKLKKEPKTLLPHDPAADV VTPAEEKPIEQWVKPETKVDL KASV
12562	42930	A	12638	1	342	
12563	42931	A	12639	1	580	PGWEKRMSRSS/GVNTQEALPT AAIPTDAKVRVYFYFNHITNASQ WERPIGNSSSGGKNGQGEPARV RCSHLLVKHSQSRRPSSWRQEK ITRTKEE\ALELINGYIQIKISGE EDFE\SLASQFSDCSSAKA\RGD LG\SFSRGQMOKPF*RTPRFAL\ RTGGDERGPCFTD\SGIHILPHL SEGGKPRPGLGAGQGG
12564	42932	A	12640	3	116	
12565	42933	A	12641	2	253	
12566	42934	A	12642	3	512	EDYLERKRQ/VPTECQTHSKLG GPMTLKREVKP/KVDVSPSKKG PL\QHHTLL\VCHVRIFYPGSIQ/ VRWFLNGRKKTAGVSPNLIR NGDWT/FQILVMLEM/TPQQGD VYTCQVEHTSLDSPVTVEWKA QSDSARSKTLTGAGGFVLGLIIC GVGIFMHRRSKK\FNEDLHKQG
12567	42935	A	12643	1	363	
12568	42936	B	12644	70	1229	
12569	42937	A	12645	1	430	
12570	42938	B	12646	1	1321	
12571	42939	A	12647	3	446	

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12572	42940	A	12648	1	417	
12573	42941	A	12649	269	452	TILRSFGYFFRRINIMLTEEKIKS DHRKISQLIFLQKLCQTLQSENV SQGGMLYRAKA*H*T*TLVWV *HVMSYPHKGLGLMLSLCSVK HSTLRDVFTL
12574	42942	A	12650	83	1385	
12575	42943	A	12651	1	974	MNPLECVD RSSQPWGNPTWTS SGMRSVTFLVGFKLTFLALAQT LNAAA SLTGQELLAGFPPGVINI LPGYGPTAGAAIASHIGIDKIAF TGSTEKEAELHSWIKGLTCISIE PDFQKSLKDGILCILMNKLQPA SFPKINHSMQKWHQLENLSNFI KAVVS YDMNPMDL FKANNLFE SGNMRHMQVSLFALAGKVKT KRPQSGVDIGIKYSEKQEQNFS DAAMKAGQCVIGLQMGTNKC TSQLGMTVYGMGTNNCASQVS MTAPGTRQHICDTKLGTDKCG NSSMSLQMGYT/QGAANQPRV CEWQRGIRQQGFLPPCLGPSQE
12576	42944	A	12652	1	1103	MNPLECVD RSSQPWGNPTWTS SGMRSVTFLVGFKLTFLALAQT LNAAA SLTGQELLWNFPLLMF AWKIAPALCCGNTTVVIKPAEQT PLSALYMGALIKEAGFPPGVINI LPGYGPTAGAAIASHIGIDKIAF TGSTEKEAELHSWIKGLTCISIE PDFQKSLKDGILCILMNKLQPA SFPKINHSMQKWHQLENLSNFI KAVVS YDMNPMDL FKANNLFE SGNMRHMQVSLFALAGKVKT KRPQSGVDIGIKYSEKQEQNFS DAAMKAGQCVIGLQMGTNKC TSQLGMTVYGMGTNNCASQVS MTAPGTRQHICDTKLGTDKCG NSSMSLQMGYT/QGAANQPRV CEWQRGIRQQGFLPPCLGPSQE
12577	42945	A	12653	1	729	
12578	42946	A	12654	259	390	SFCSANFEVFRLTAQQ*FVR*H ALSHIF*G*V*SFPKSTKRVNF
12579	42947	A	12655	68	735	
12580	42948	A	12656	1	825	
12581	42949	A	12657	3	470	
12582	42950	A	12658	1	1683	

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12583	42951	A	12659	1	1748	MNKPYIRNLSENAAPLDLEGIL KDAKIPVSGPFLVKIGYAFVDC PDEIWALKAI EALSGKIELHGKP IEVEHSVPKRQRIRKLQIRNIPPH LQWEVLDS*LVQYGVVESCQQ VNTDSETAVVNVITYSSKDQAR QALDK/LLDKLNGFQLENFTLK VAYIPDEMATQQNPFLQPRGRR GLGQRGSSRQGSPPSVSKQKPC DLPLCLLVPTQFVGAIIGKEGAT IRNITKQTQSKIDVHRKENAGA AEKSITILSTPEGTSAACKSILEI MRKETQDVKFTEEIPLKILAQN NFVGRLLIGKEGRNLKKIEQDTD TKITISPLQELMQYNPEHTITAK GNVETCAKAE EIMKKIRER*E NDITSM/N/LQAHLPGLNLNAL GLFPPTSGMPPPTSGPPSAMTPP SPQSESESETVHLFIPALSVRA LISKQGQHIKQLSRFAGASSKIA PVEAPDAKVRMVMAGSPEAR FKAQGRIYGKIKEENFVSPKEE VKLEAHIRVPSFAAGRVIKGG KTVNELQNFSSAEVVVPRDQTP DENDQVVVKITGHFYACQVAQ RKIQEILTQVKQHQQQKALQSG
12584	42952	A	12660	3	803	
12585	42953	B	12661	1	330	
12586	42954	C	12662	127	342	
12587	42955	A	12663	324	491	
12588	42956	A	12664	1	891	
12589	42957	B	12665	1	1869	
12590	42958	A	12666	2	136	
12591	42959	A	12667	108	355	
12592	42960	A	12668	2	811	FGMRGSRGGWAGEMAASGES GTSGGGGSTEEAFMTFYSEVKQ IEKRDSVLTSKNQIERLTRPGSS YFNLNPFVLQIDPEVTDEEIKK RFRQLSILVHPDKNQDDADRA\ QKAFEAVDKAYKLLLDQEQKK RALDVIQAGKEYVEHTVKERK KQLKKEGKPTIVEEDDPFLFKQ AVYKQTMKLF AELEIKRKERE AKEMHERKRQRE EIEAQEKA KR/EEREWQKNFEES\RDGRVD SWRNF\QAQFRRGKKEKKNRTF LRPPESKNGSNVE
12593	42961	A	12669	731	850	
12594	42962	A	12670	201	377	LMTLPCKIPSPGSSWLKISPIEHL MTPTPASQRTTTPFDCNFPLPTQI L*NGPTPISLH

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12595	42963	A	12671	742	2982	KIFPFDASFLPCLHKFNKKGKGN NSKGFKMAEFESLMNIHGFDL GSRYMDLKPLGCGGNGLVFSA VDNDCDKRVAIKKIVLTD PQSV KHALREIKIIRRLDHDNIVKVFE ILGPSGSQLTDDVGS LTELNSV YIVQEYMETDLANVLEQG PLLE EHARLFMYQLLRGLKYIHSAN VLHRDLKPANLFINTEDLV LKI GDFGLARIMDPHYSHKGHLSE GLVTKWYRSPRLLSPNNYTK AIDMWAAGCIFAEMLTGKTLF AGAHELEQMQLILESIPVVHEE DRQELLSVIPVYIRNDMTEPHK PLTQLLPGISREALDFLEQILTFS PMDRLTAEALSHPYMSIYSFP MDEPISSHPFHIEDEVDDILLMD ETHSHIYNWERYHDCQFSEHD WPVHNNFDIDEVQLDPRALSD VTDEEEVQVDPRKYLDGDREK YLEDPAFDTNYSTPCWQYSD HHENKYCDLECSHTCNYKTRS SSYLDNLVWRESEVNHYEYEPK LIIDLSNWKEQSKEKSDKKGKS KCERNGLVKAQIALEEASQQLA GKEREKNQGDFD SFIAGTIHLA SSQHEPTDVG\DKLNDLNSSVS QLELKSLISKSVSQEKQEKGMA NLAQLEALYQSSWDSQFVSGG EDCFFINQFCEVRKDEQVEKEN TYTSYLDKFFSRKEDTEMLETVE PVEDGKLGERGHEEGFLNNSGE
12596	42964	A	12672	826	1041	WKITVKGGVFLWWAGVGD TK VLSGGAF*ARMSQEEDFHKVM SSVKARTGHLHFFCGGMSSVK AGQGPF SVLL
12597	42965	A	12673	1	1482	
12598	42966	A	12674	3	488	
12599	42967	A	12675	2	114	

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12600	42968	A	12676	1	897	MSNRVVCREASHAGSWYTASG PQLNAQLEGWLSQVQSTKRPA RAIIAPHAGYTYCGSCAAHAYK QVDPSITRRIFILGPSHHVPLSRC ALSSVDIYRTPLYDLRIDQKIYG ELWKTGMFERMSLQTEDEHS IEMHLPYTAKAMESHKDEFTIIP VLVGALSESKEQEFGLFSKYL ADPSNLFVVSSDFCHWGQRFR Y\SYIDESQGEIY*SIEHLDKMG MSIIEQLDPVSFSNYLKKYHNTI CGRHPIG\VLLNAITELQKNGM NMSFS\FLNYAQSSQCARNWQD SSVSYAAGALTVH
12601	42969	A	12677	2	114	
12602	42970	A	12678	1	897	MSNRVVCREASHAGSWYTASG PQLNAQLEGWLSQVQSTKRPA RAIIAPHAGYTYCGSCAAHAYK QVDPSITRRIFILGPSHHVPLSRC ALSSVDIYRTPLYDLRIDQKIYG ELWKTGMFERMSLQTEDEHS IEMHLPYTAKAMESHKDEFTIIP VLVGALSESKEQEFGLFSKYL ADPSNLFVVSSDFCHWGQRFR Y\SYIDESQGEIY*SIEHLDKMG MSIIEQLDPVSFSNYLKKYHNTI CGRHPIG\VLLNAITELQKNGM NMSFS\FLNYAQSSQCARNWQD SSVSYAAGALTVH
12603	42971	A	12679	1	912	
12604	42972	A	12680	1	156	
12605	42973	A	12681	112	1120	
12606	42974	A	12682	33	415	NMNKPITPSTYVRCLNVGLIRK LSDFIDPQEGWKKLAVAIAKKPS GDDRYNQFH\DAVPKTANTLP SKEAITVQKQMPFCDKDRTL MTPVQNLEQSYMPPDSSSPENK SLEVSDTRFHSFSFYELKN
12607	42975	A	12683	3	311	
12608	42976	A	12684	1	1125	
12609	42977	A	12685	1	1365	
12610	42978	A	12686	3	141	VVSTVVPDS/AHKLFIGGLPNYL NDDQCHGLSKGYAFCEYVDIN VTV

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12611	42979	A	12687	1	1255	GTRSTSSLRRQMKNIHNYSEA EIKVREATSNDPWGPSSSLMSEI ADLTYNVVAFSEIMSMIWKRL NDHGKNWRHVYKAMTLMEYL IKTGSERVSQQCKENMYAVQT LKDFQYVDRDGKDQGVNVRE KAKQLVALLRDEDRLEERAH ALKTKEKLAQTATASSAAVGS GPPPEAEQAWPQSSGEEELQLQ LALAMSKEEADQEERIRRGDDL R\RRWQSRARRGR LGARRSRPS WTLTSSRPQLLPRTPGGAQ HPWLLPSPRLPPRTPGAAPLSL QLLIPGEVQPPRRPLGTPGGLLP LQDPQLTLGVGPQLQLGRGPR LIHGEVPMVGSRSVGPQPPIPGH RPRPSQIPGEGHLPSPAPMAQQ QPGDSTRSPTSSLTLTDSARHCR PPGAAQESWSCWQERCPEAL
12612	42980	A	12688	116	1541	
12613	42981	A	12689	3	415	
12614	42982	A	12690	1	1440	
12615	42983	C	12691	117	314	
12616	42984	A	12692	3	120	
12617	42985	A	12693	1	729	
12618	42986	A	12694	79	870	EWSSVRRSLVEKRALRRPHPQC LCFRMKTILSNQTCRPFPE\NVD \ITLKGRP\ VIV*GPAEGTLR\ RDF \NHLQW*NLSLSWKEKKRGSR VDK\WWGNRKGNWPTVVRTYL VVHVQN\MIKGVLPGLPVTKD EGLVYA\HFPHTLVIPGRNGSS LLKSRNFLGVKNTSRRVSG*RP G\VACS\VSSSPRKDEFNPLKGN DIGACFQISAGFGFQQAPHTCL KTRDIQGNFWDGYPMVLWKK GTVSARAGWNKDLKEFTWATE RKMPG
12619	42987	A	12695	2	293	
12620	42988	A	12696	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
12621	42989	A	12697	1	1308	

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12622	42990	A	12698	124	1135	DKNSMGLPGVIPSCAAVLWSSI HLSSSALSPTISACRHPMEDSM DMDMSPLRPQNYLFGCELKAD KDYHFKVDNDENEHQLSLRTV SLGAGAKDELHIVEAEAMNYE GSPIKVTLATLKMSVQPTVSLG GFEITPPVVLRLKCGSGPVHISG QHLVAVEEDAEESEDEEEEDVK\ LLSISGKRSAPGGGSKVPQKK\ KLAAD\EDDDD\DEEDDDDD \DDDDF\DEEEAEEKAPVK\KSI\ RDTPAKNAQKSNQNGKDSKPS STPRSKGQESFKKQEKTPKTPK GPSSVEDIKAKMQASIA/EKGGG LPKVEAKFINYVKNCFRMTDQ EAIQDLWQWRKSL
12623	42991	A	12699	201	416	
12624	42992	A	12700	2	678	
12625	42993	A	12701	3	2149	
12626	42994	A	12702	1	219	
12627	42995	A	12704	267	437	
12628	42996	A	12705	507	845	
12629	42997	A	12706	426	704	SRRWGGVHSCPPSPPTAGHWT LLILCAKARRSEAAMVLASRRR RPGPRPRRRRLPVLGSRGGAG PARGRGPSPGWPGLRAAPSP*P SSTV
12630	42998	A	12707	195	892	
12631	42999	A	12708	1	893	
12632	43000	A	12709	1	777	
12633	43001	A	12710	1	439	KTQVAPSTDGIQPSSNSRTDE REFFIASYNRKKEDEGENVWIA KSSAGAKGEGILISSEASELLDFI DNQAQVHVIQKYLEHPLLEPG HRKFDIRSWVLVDHQNIIYLY REGVLRRTASEPYHVDNFQDKT CHLTNHC IQKKKKK
12634	43002	A	12711	1	394	SGTRPVFLVPHTIGIPHPAIVTP QVKQEHPTDSDLMHVVKPQHE QRKEQEPKRPHIKKPLNAFMLY MKEMRANVVAECTLKESAAIN QILGRRWHALSREEQAKYYEL ARKERQLHMQLYPGWSARDN
12635	43003	A	12712	1	789	
12636	43004	A	12713	1	870	
12637	43005	A	12714	1	729	
12638	43006	A	12715	1	828	
12639	43007	A	12716	1	213	
12640	43008	A	12717	1	664	
12641	43009	A	12718	1	695	
12642	43010	A	12719	96	269	

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12643	43011	A	12720	3	241	
12644	43012	A	12721	213	660	EGPARHRLSPVRASKMTKKR RNNGRAQKRAARHVRGPSPLK/ CFPSGPLPPNCAR\CVPK\DKAIK KFV\RNIVEAAA\AR\DISEASV FDAYL\LPKL\YVKLH\YCVSCAI HKQK*SGNRSS*SPAKTRTPPPR FR\PGG*LPHGPPTKSP
12645	43013	A	12722	1	303	
12646	43014	A	12723	610	928	FLSLPTFLFVIFS GEEELLVLALV FLSLFFFFFFLWRWSFAVVAQAV\ VQWHNLSSLPFGFKQFCSLSLP SSWDYRCPPRPANFCIFTRDG VSPCCPGWSRTSDLR
12647	43015	A	12724	1	2775	
12648	43016	A	12725	1	6039	
12649	43017	A	12726	2	3661	
12650	43018	A	12727	1	1173	
12651	43019	A	12728	1	1632	MPNPKNSKGGRKNKRANSSGD EQENGAGALAAAGAAGAAAG GALAAAGCGAAAAGAPGAG GAAGAGGAGTGAANAAAAAG AAAAGDAKNEAPCATPLICSFG RPVDLE\KDDYQKVVCNNEHC PCSTWMHLQCFYEWESSILVQF NCIGRARTWNEKQCRQNMWT KKGYDL\AFRCSCRCGQGNL KKDTDWYQVKRMQDEKKKKS GSEKNTGRPPGEAAEEAKKCRP PNKPQKGPSHDLP RRHSM DRQ NSQEKA VGAAAYGARSPGGSP GQSPPTGYSILSPA HFSGPRSSR YLGEFLKNAIHLEPHKKAMAG GHVFRNAHFDYSPAGLAVHRG GHFDTPVQFLRRDLSELLTHIP RHKLN TFHVRMEDDAQVGQG EDLRKFILAALSASHRN VVNCA LCHRALPVFEQFPLVDGTLFLSP SRHDEIEYDVPCHLQGRMLHL YAVCVD CLEGVHKIICICKSR WDGSWHQLGTMYTYDILAASP CCQARLNCKHCGKPVIDVRIG MQYFSEYSNVQQCPCGNLDY HFVKPFSSFKVLEAY
12652	43020	A	12729	1	1485	
12653	43021	A	12730	1	1074	
12654	43022	A	12731	2	3394	
12655	43023	A	12732	1	2190	
12656	43024	A	12733	1	1251	
12657	43025	A	12734	1	1710	
12658	43026	A	12735	3	679	

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12659	43027	A	12736	209	337	
12660	43028	A	12737	365	538	
12661	43029	A	12738	2	196	
12662	43030	A	12739	1	2639	
12663	43031	A	12740	3	173	
12664	43032	A	12741	1	1479	
12665	43033	A	12742	1	921	
12666	43034	A	12743	1	798	
12667	43035	A	12744	2	773	
12668	43036	B	12745	75	321	
12669	43037	A	12746	321	738	
12670	43038	A	12747	1	3190	
12671	43039	A	12748	287	1636	ACGAMERAPPDGPLNASGALA GDAAAAGGARGFSAAWTA AALMALLIVATVLGNALV FVADSSLRTQNNFFLLNLAISDF LVGAFCIPLYVPYVLTGRWTFG RGLCKLWLVVDYLLCTSSAFNI VLISYDRFLSVTRAVSYRAQQG DTRRAVRKMLLVVLAFLLYG PAILSWEYLSGGSSIPEGHCYAE FFYNWYFLITASTLEFFTFLSV TFFNLSIYLNQRRTRLRLDGAR EAAGPEPPPEAQSPPPPGCWG CWQKGHGEAMPLHRYGVGEA AVGAEAGEATLGGGGGGGSVA SPTSSSGSSSRGTERPRSLKRG KPSASSASLEKRMKMVSQSFTQ RFRLA\DRKEAKSLAVIVSIFG LCWAPYTLLMIIRAACHGHCV DYWYETSFWLLWANSVNPV LYPLCHHSFRAFTKLLCPQKL KIQPHSSLEHCWK
12672	43040	A	12749	1	2142	
12673	43041	A	12750	3	711	VWWNSDLMVINRSTTELPLTV SYDKVSLGRLRFWIHQDAVY SLQQFGFSEKDADEVKGIFVDT NLYFLALTFFVAAFHLLFDFLA FKNDISFWKKKSMIGMSTKA VLWRCFSTVVIFLFLLEQTSLL VLVPAGVW/AAAIELWES*RK/ VI*RTWIFWRGLMPEFQFGTYS ESERKTEEYDTQAMKYSYLL YPLCVGGAVYSLNLIKYSWY SWLINSFVNGVYAFGFLFMLPQ
12674	43042	A	12751	1	2025	
12675	43043	A	12752	494	747	ATVKWITLCRNRNIKLPFIKKE GTGKAPKKSRSVLGLGP*VHT SPGDPAGEGLPAGERPDGNLS QSPNSLRFYIKKKKAYK
12676	43044	A	12753	9	731	

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12677	43045	A	12754	143	641	RSWVLLGVGARGSTPRTYQVP SPSLAPSALC*VS*VPLESLSCSH ADNWKQELTKFISPDQLPVEFG GTMTDPDGNPKCLTKINYGGE VPKSYYLCKQVRLQYEHTRSV GRGSSLQVENEILFPGCGLR\VL RFYNTYSLVHSKRISYTVEVLL PDQTFMEKMEKF
12678	43046	A	12755	1	1506	
12679	43047	A	12756	2	526	CQPVRAA*RHGNTPLATV*PAS T/WWKWSEKQKEEQEMQNWR ESAS/VSGYPQDILSCAMSQNPR KRKRPRNVSAPPVHQMAQMNI SVEQMETS KTHQATPLTWGQM KRLAHVAEENLRSQNKPLTTSN LMVAMMVVISLAVSLPVAGAD QNYIYWAYIPFPH
12680	43048	A	12757	1	1443	
12681	43049	A	12758	3	766	
12682	43050	A	12759	29	253	
12683	43051	A	12760	34	252	
12684	43052	A	12761	1362	1611	SSVLHPWDARLVQHTVKSIIHH HINRTNDKNHMIISIDAEKAFD KIQQDFMLKTLNKLIGDGYLK IVRATYDKPTASIIING
12685	43053	B	12762	1	1755	
12686	43054	A	12763	1	2109	
12687	43055	B	12764	1	1497	
12688	43056	B	12765	1	1527	
12689	43057	B	12766	1	1746	
12690	43058	B	12767	1	2853	
12691	43059	B	12768	1	1479	
12692	43060	B	12769	1	1932	
12693	43061	A	12770	1269	1581	NTGKPNPAAHQKGYPPRSSGPH PWDARLVQHTKSINIIHHINRT KDKNHMIISIDAEKAFDKIQLPF MLKTL SKLGVSYNMFTRLTIPI AQVDTRGNQLPSYLI
12694	43062	B	12771	1	4404	
12695	43063	B	12772	56	2080	
12696	43064	B	12773	1	5445	
12697	43065	B	12774	295	2831	
12698	43066	A	12775	89	459	
12699	43067	A	12776	2	980	
12700	43068	A	12777	1	378	
12701	43069	A	12778	1	363	PGVALPGRRCRQAPADLLP*MR AYWPDVIYSFANRSRFWKHEW EKHGTCAAQVDALNSQNKYFG TSLELYRELDLNSVLLKLGIKPS INYYQVADFKDALARVYGVIP KIQCLPPSQDEDRQ

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12702	43070	A	12779	1	577	QRFKNDCRDPDRTGPIHGLWPD KSEG/CNRSW/PFNLEEI KDLCP EMRAYWPDVIHSFPNRS RFWK HEWEKHGTCAAQVDALNSQK KYFGRSLELYRELDL/NQVADF KDALARVYGVIPKI QCLPPSQD EEVQTIGQIELCLTKQDQQLQN CTEPGEQSPKQEVWLANGAA ESRGLRV CE GPVFYPPPKTK
12703	43071	A	12780	1	624	MRPAALRGALLGCLCLALLCL GGADKRLRASVSRPFSLEHPEP GHCLDLHLRAYPAR\WSS*PWP QDFWVR*PTWES/VSDLLPEMR AYWPDVIHSFPNRS RFWKHEW EKHGTCAAQVDALNSQK KYFG RSLELYRELDLNRGERVPTQFP RELVVNRSLAPPPTPGFLSGHVI SVHTSSPLPSAMSGSFLRPLPEA ESGSMLLGQPADP
12704	43072	A	12781	1	612	
12705	43073	A	12782	113	1149	RGAPRGPGRQGCCGHSRSPAR GPRDTGLGRPRAPGAPGGRCCS GGSAAARGLGDSVSPGSLPRAA GGKWEPERQLAA FSPQVGTMR PAALRGALLGCLCLALLCLGG ADKRLRDNHEWKKLIMVQHW PETVCEKIQNDCRDPDPDYWTIH GLWPDKSEGCNRSWPF\NLEEI KDLLPEMRAYWPDVIHSFPNRS RFWKHE/WPKRHGTCAAQ\VD ALNSQK\KYFGRSLELY\RKLDL NSVL\KLGKIPSINYYQVADFK DALARVYGVIPKI QCLPTSQGE\ EVQTIGQ\IDLCLIKARTRQLQN\ CTEPGEQ\SPKQEVWLANGA\ AESRGLRV CE GPVFYPPPKTK
12706	43074	A	12783	2	515	
12707	43075	B	12784	62	359	
12708	43076	B	12785	219	523	
12709	43077	A	12786	1010	1550	DTENIPSSRRRERSKVPYIVRQC VEEIERRGMEEVG IYHVSGR\ V AADIQALKAAFN VSECRPAQD GMEVWAVVSAMRSQSAPRPRH VTSFSVSFLHLSGSSRRPLHFRA LS\NNKDVSMMSEMDVNAIA GSLKLYFRELPEPLFTDEFYPNF AEGIGEHWRPWPHGRLLHVH CCPQRL

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12710	43078	A	12787	2	951	GSNLYCTLEGDSFGYFVNKAK TRVYRD/THADPNWNEEFIEL EGSQT LRILCYEKCYNKTKIPKE DGESTDRLMGKGQVQLDPQAL QDRDWQRTVIAMNGIEVKLSV KFNSREFSLKRMPSRKQTGVFG VKIAVVTKRERSKVPIYIVRQC VEEIEPPKALEGGWASTACPAG VATDIQALKAAFDGNNKDVSV MMSEMDVNAIAGTLNLYFREL PEPLFT\DEFYPNFAEG/IRVAEK EAVNNM\SLHNLATVFGPTLLR PSEKESKLPANPSQPITMTDSW SLEVMSQVQVLLYFLQLEAIPA PDSKRQSILFSTEV
12711	43079	A	12788	3	644	
12712	43080	A	12789	168	378	
12713	43081	A	12790	1	486	
12714	43082	A	12792	83	536	
12715	43083	A	12793	1	662	
12716	43084	A	12794	3	357	
12717	43085	A	12795	2	421	
12718	43086	A	12796	2	908	
12719	43087	A	12797	1	846	
12720	43088	C	12798	87	413	
12721	43089	A	12799	1	508	MCQGD TYAWGGHMC RGGHLR RGHSHERDT PRGPERPPPPAR DRESKDERRRPPPKDP PAVRTC\ PDSPSTATPPPPPPPPPPPPPP PAAPSAFAALRLRGPGRKWTA RGQLPLPATAP EARVRALPRGG YSSPGRATSARGPAPWLP LSRT GKPPRPCSANTQEHC
12722	43090	A	12800	1	393	
12723	43091	A	12801	1	582	
12724	43092	A	12802	1	1422	
12725	43093	A	12803	1	1080	
12726	43094	A	12804	2	261	SCPFGGNC FYKHA YPDGRREEP QRQKVG TSSRYRAQR RNHFWE LIEERENS NPFDNDEEE VVTFEL GE\MLLMLLAAGGDDELTNS
12727	43095	B	12805	60	802	
12728	43096	A	12806	2	238	
12729	43097	A	12807	1	1017	
12730	43098	B	12808	1	939	
12731	43099	A	12809	1	708	

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12732	43100	A	12810	1	2653	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLDIYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRSEIKINCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLLARLIKKKR EKNQIHAIKNDKGDMSTNHTEI QTTIREYYKHLYANKLENLKEI DKFLETYSLPRLNQEEVESLNR PITGSEIEAIIINSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKFIWNQKRARIA KSILSQKNKAGGIMLPDFKLYY KATITKTAWYWYQNRDIDQW NRTEPSEIMPHIYNHLIFDKPDK NKKWKGDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENPGNTIQDI GMGEDFMSKTPEAMATKAKID KWDLIKLSFCTAKETTIRLNR PPTWEKIFAIYSSDKGLISRIYN ELQQIYEKKTNPIKKWAKDM NRHLSKEDIYAAKRHMKKCAS
12733	43101	B	12811	1	2748	
12734	43102	A	12812	1	1962	
12735	43103	B	12813	1	1833	
12736	43104	A	12814	176	421	QQPASPTRSVLLFPKTAHISGSP APPNVGLLPSTGAAQKKTMT SAGLGRLSL*K*LNLPECVACA GETWVTSMMSGNQCN

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12737	43105	A	12815	1	1615	LISNFSKVSGYKINVQKSQAF L YTNNRQTESQIMSELPFTIASKR MKYLGIQPTRDMKDLFKENYK PLLNEIKEDTNKWKNIPCSWVG RINIVKMAILPKNWKKTTLKFI WNQKRARIAKSILSQKNKAGGI MLPDFKLYYKATITKTAWYWY QNRDIDQWNRTEPSEIMPHIYN HLIFDKPDKNKKWGKDSL FNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENPGNTIQDIGMGEDFMSKTPE AMATKAKIDKWDLIKLKSFC AKETTIRLNRPTEWEKIFAIYS SDKGLISRIYNELQQIYEKKTNN PIKKWAKDMNRHLSKEDIYAA KRHMKKCASSLAIREIQIKTTM RYHLTPVRMAIIKKSGNNRCW RGCGEIGTLLHCWWDCCLVQP LWKS VWRFLRDLELEIPDPAIP LLGIYPKDYKSCCYEDTCTHMF IVALFTIAKTWNQPKCPTMIDW IKKMWHIYTM EYYADIKKDEF MSFVRTRMKLETIILSKISQ\ EK KTKHRMFSLIGGN
12738	43106	A	12816	1	996	
12739	43107	A	12817	1	756	
12740	43108	A	12818	1	1428	

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12741	43109	A	12819	1	2377	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIQGMQGWFNIRKSI NIVQHINRTNDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKSTANIVLNGQKL EAFPLKTGTRQGCPLSPLFNIV LEVLARAIRQEKEIKGIQLRKEE IKLSLFADDMMIVHLENPIVSAQN LLKLIDNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SERIKYLGILTRDVKDLFKEN YKPLLNDIKEDTNKWKNTPRS WVGRINIMKMAILPKVIYRFNA IPIKLPMTEFFTELEKTTLKFIWN QKGARIAKSILIYRFNAQELEKT TLKFIWNQKGARIAKSILSQKN KAGGITLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNHLIFDKPDKNKKWGND LFNKWCWENWLAICRKLKLD FLIPYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIAMGKDFMS KTPKAMATKAKIDKWDLINLK SFCTAKETTIRVNRQPIEWKIF AIYSSDKGRISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSLAIREMHI KTTMRHHLTSVRMAIHKKLG DWCWRGCGEIGRLLHCWWDC KL VQPLWKS VWRFLRDLELET PFDPATPLLGIYPKDYKSCCYK DICT/RVCVPAALFTIANTWNPT
12742	43110	A	12820	1	4840	
12743	43111	A	12821	578	630	EYKNR*GLSLNPWGKTVHISW DVWSVGSSKAKRNWESWES*C RGIQKKASLSRTGNHSASSGI* ESRV*GLGTTGYRGITASLMSL RSCTRLH
12744	43112	A	12822	8	214	EEWPKRKSEIRERPRP*SWPSDK QTLVVQRGQKMEQANHPDPTD HMSQLMWTACPKGLGIALICL VRH
12745	43113	A	12823	33	240	GGGRNTWLQAVPGFPGW*RTL RTAVWDRRLTLRKPHHCPGGS QFPGPQRQVIGLLHFLSSLNHQ GWFV

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12746	43114	A	12824	1	411	MSTITQRKEENPSVFLEWLWEA /CKKIYSPVTRLTRGSIDPKR*V YYAISHRYQQKAPKPSGP*TK SGGIKPGNLGVLY*GPRGTGQ KGKARSEKGCSLSHGPTNKP WWFREDRKWSRPITWYGFLSV WFARTP
12747	43115	A	12825	1	611	
12748	43116	A	12826	120	493	KYRAQRRMIARWLPQDLERGE AMLPNSSGWYKSLKGI/VLISEA FCKCRAASLTADWL*V*KQHS SPKKVQSPFSAVRRSKPWQFW RVTAQKQSIWDCRVRIDFVISC KLRNPLRVCGSRILK
12749	43117	A	12827	1	2195	VGEEGPAGVEGLNFPQSRRLP GPQQCSPGAEQGASARARRPR RPRPAAMVPGVPGAVLTCLW LAASSG\SWRPAPAR\CAAAG RVAVCRERPARS\CASRCLSLQI TRISAFFQHFQNNGLVWCQNH KQCSKCLEPCKESGDLRKHC QSFCEPLFPKKSIECLTSCEFLK YILLVKQGDCPAPEKASGFAAA CVESCEVDNECSGVKKCCSNG CGHTCQVPKTLKGVPLKPRK ELRFTELQSGQLEVKWSSKFNI SIEPVIYVVQRRWNYGIHPSED DATHWQTVAQTTDERVQLTDI RPSRWYQFRVAANVHGTGRGF TAPSKHFRSSKDPSAPPAPANLR LANSTVNSDG/AV*TVTIVWDL PEEPDIPVHHYKVFWSWMVSS KSLVPTKKRRKTTDGFQNSVI LEKLQPDYVVELQAITYWG QTRLKSAKVS LHFTSTHATNNK EQLVK\TRGGIQTQLPFQRRRP TRPLEVGAPFYQDGLQVKVY WKKTEDPTVNRYHVRWFPEAC AHNRTTGSEASSGMTHENYIIL QDLSFCKYKVTVPKPKSHS KAEAVFFTPPCSALKGKSHKPI GCLGEAGHVLSKVLAKPENLS ASFIVQDVNITGHFSWKMAKA NLYQPMGTGFQVTWAEVTTESR QNSLPNSIISQSILPSDHYVLT PNLRPSTLYRLEVQVLTGPGGEG
12750	43118	A	12828	1	1410	
12751	43119	A	12829	2	299	
12752	43120	B	12830	81	510	
12753	43121	A	12831	3	436	
12754	43122	A	12832	1	769	

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12755	43123	A	12833	15	413	ERMCA GPWRKGAETGPYFCND TVRHRKASLLCPF*RMNGDQN SDVYAQEKQDFVQHFSQIVRVL TEDEMGHPEIGDAIARLKEVLE YNAIGGKYNRGLTVVVAFREL VEPRKQDADSLQRAWTVGWC VELLQA
12756	43124	A	12834	1	795	MNGDQKSDVYAQEKQDFFQHF SQIVGVLTEDEMGHSEIGDAIA RLKDVLEYNAIGGKYHRGLTV LVAFQELDAINYAILLEACIYYL LKLYCQAQPYLNLIELFLQISC QPEIGQTLDLITAP/QDNVDFGR FT/EKQHANA*KILLEI/GEFFQI QDGYLDLFGDPTVTRKVGTDIQ DNKCSWL VVQCLQRSTLEQYQ ILKENYGQKKAKKVQVKALY EELDLPAVFLQYEEDGYSHIMG LTEQYAAPLLPAMFLGLVYKIY
12757	43125	B	12835	1	328	
12758	43126	A	12836	2	868	
12759	43127	B	12837	118	1138	
12760	43128	A	12838	100	374	KHISPALKALELPFERNLII/PLQ LLKVRILKEGEML/DI*HWFL** GMGT VQKGMPHKCYHGKTGR VYNVTQHAVGIVVNKQVK*VV
12761	43129	A	12839	1	1035	
12762	43130	A	12840	13	600	INPPPPFRPELPSSSNSPKMTDH KGERGEATRYMFSRPFKKTMG VVPLGHNN*RF\YKKGDIVD\IK GMGYCVQNGMP\HKCYPWPKL EGVLQLLPQHA\VAIVVNQPV GQSFFPRE*IVRIEHIKHF*EPEIS FLK/RVLKENDSEKERSPNEKG TWGSLNKRHLAPPQKKHTL*R TNGKEPEL\LEPIPYEFHGHN
12763	43131	A	12841	1	317	QRPSEAKEIKLYAQIPPIEKMDA SLSMLANCEKLSLSTNCIEKIAN LNGL\EA VGD TLEELWISYNFIE KLKGIHIMKKLKILYMSNNLVK DWGTPVIKGDEEEDN
12764	43132	A	12842	155	588	
12765	43133	A	12843	1	954	
12766	43134	A	12844	1	486	
12767	43135	A	12845	1	367	
12768	43136	A	12846	1	190	LISRAKEDDMTLNIAEGVHPSY NIVLNTLHT/CGISVKSTWRPSK GAAP*ARMPGGTAGPCLAS

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12769	43137	A	12847	1	2376	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLEI ASQVFVNRDVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVPNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRA\WQQLPC*YKIVPSILRIS SSDGKYKAFSTCGSHLAVVC
12770	43138	A	12848	1	636	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLEI ASQVFVNRDVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVPNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRA\WQQLPC*YKKQIS
12771	43139	B	12849	180	811	
12772	43140	A	12850	1008	1265	FLGVPTLGGWRPIQHELK/PRE VTPVLLRDLIRFRPPLWIGSDN GPAFLAALVQKTAKGIQNNITG GVYTLCDIDSHILFRSGY
12773	43141	B	12851	1	996	
12774	43142	A	12852	1251	1424	DSPRGEAES*A*LPEKLLEMSG NRLVDNKDPGKKQTQRRIPHSP SQIPVPLPEIWCT
12775	43143	A	12853	1	1121	
12776	43144	A	12854	189	621	
12777	43145	A	12855	2207	2308	
12778	43146	A	12856	1	762	
12779	43147	A	12857	1	678	
12780	43148	A	12858	3	496	
12781	43149	A	12859	107	258	NALGKRTSFTNRNFLASGR LFD SVTYARRLQQYPAPL*KTAI*SF SLLNH
12782	43150	A	12860	2	410	SPDPWVSTYKSTCHIAQEAIEKI HLRNQYERKGE*AP\RSNLMSE DANGGAPNPWLFEEPEETIGW GFDEIRQQQHNIIR*QDAGLDA LSSIISRQKQM\GIEIGNELHEQN EIDDLANLMENTDEKLNETR RVN
12783	43151	A	12861	3	1402	

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12784	43152	A	12862	1	711	MAPDPWFSTYDSTCQIAQEIAE KIQQRNQYERKGEKAPKLTVTI RALLQNLKEKIALLDLLRAV STHQITQLEGDRRQNLDDLVT RERLLASFKNEGAEPDLIRSSL MSEEAARGAPNPWLFEEPEETR GLGF\DEIRQQPQKI\QEQDARL DALSSISSQKQ\MGQEIGNELD EQNEIIDDLANLVENTDEKLRN ETRRVNMVDRKSASCGMIMVI LLLLVAIVVVAVWPTN
12785	43153	A	12863	1	936	
12786	43154	A	12864	1	1023	
12787	43155	A	12865	1606	2238	
12788	43156	A	12866	3	347	
12789	43157	A	12867	1	1665	
12790	43158	A	12868	1	589	
12791	43159	A	12869	19	1677	
12792	43160	A	12870	1	906	
12793	43161	A	12871	1	228	
12794	43162	A	12872	1	320	
12795	43163	A	12873	1	398	TSKAPGAQGEQGFEECFLAVAL AGRPLPSLWALFQATTPV\LQG LKEAFFRPEVPLRRDLPLLLFR\ TQTSDPAMPL\TMIGLLAEARR AGCLSYQTSLSVSDGETWHVMG ISSLLP\SLEG\WKQ\HVTEAFQF HF
12796	43164	A	12874	3	322	SAGGSGRRTLHSRTMAQFVRN LVEKTPALVNAAVTYSKPRLAT FWYYAKVELVPPTPAEIPRAIQS LKKIVNSAQTSFKQLTVKVTT G*MK\TDVHNRKCLPLGFF
12797	43165	A	12875	91	425	WTFHPTMAPFVRDLGEKTPA LGKAAVITYLKPRLA AFWYYH\ QVELVPPTPA\EIPRAIQSLKKIV\ NSAQTSFKQLTVKEA\LLNDL VATEVSTWFYVREITGKRGIIG* NV
12798	43166	A	12876	179	664	HSSPAVPGRTDFSHSQNPWPQF CPVTLVGEDPRALVNAAVT/YT RKPRIGLHFWYYA\KVELVP\PT PAEIPRAIQSLKKIVNSAQTGT LANSSHVKEAV/L*NGLVATEV\ LMWFLCERLLGKRHSLGYG CFEDQSFNIWIFWILFILELFVW DHVVDPC
12799	43167	A	12877	25	164	
12800	43168	A	12878	2110	2260	
12801	43169	C	12879	32	1429	
12802	43170	A	12880	172	322	

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12803	43171	A	12881	1060	12039	
12804	43172	A	12882	1	810	
12805	43173	A	12883	3	146	
12806	43174	A	12884	1	1211	GPQDGNQQPAPPEKVGWVRKF CGKGIFREIWKNRYVVLKGDQ LYISEKEVKDEKNIQEVFDLSD YEKCEELRKSKSRSKKNHSHKFT LAHSHKQPGNTAPNLIFLAVSPEE KESWINALNSAITRAKNRILDE VTVEEDSYLAHPTRDRAKIQHS RRPPTRGHLMMAVASTSTSDGM LTLDLIQEEDPSPEEPTSCAESFR VDLDKSVAGLAGSRRRADSDRI QPSADRASSLSRPWEKTDKGAT YTPQAPKKLTPTEKGRASLEEI LSQRYAASAHTLQLRAEPPTP ALPNPGQLSRIQDLVARKLEET QELLAEVQGLGDGKRKAKDPP S/RSPDSESEQLL\ETER\LLG EASSNWSQAKRVLQVREL RD LYRQ\MDLQTPD\SHLRQTTPH S\QYRKSLM
12807	43175	A	12885	617	1041	TTLINPGGPAPLLSLPTSSITGFT TFYHPNLKPLRTCPS*VQAWPC RHPI*SRDYQRDAEPTTCISKLL GENIRRDEFWKVQIKARSGETE QNPRSTAFAGELPLANREELN LLLNKGILPLCDQRQEIESECAF TIFCAGDANCFPPSPHTLPLTAL QQRPCGLSGSASKEAWGNSLV CGPRGDTLPMAIAKPHRSASKH STLHQYPTPPRSLCHQHRDEQP TNHLQTLNTIPAWIHTKWVPG DHINKPWRSCTSSQSAYLFYHW LHYFLPPKLKTSKDL SILSAGLA MSAPHLIFRVSATSNSSCKPSS TSKACEELFKEHQCLGSTDPIH IQGGAPFSAVSPQRLVLRGSQD GSHMVRPRLPFPDSAGLANFHL FSKLFLD
12808	43176	A	12886	1	606	
12809	43177	A	12887	174	350	VSWRFVQVFI*V\AGGSRICAAA GLSPGTPPPCATSLIGACSLIFIP RLLSLFCGDEAL
12810	43178	A	12888	3	265	
12811	43179	A	12889	1	1209	
12812	43180	A	12890	53	369	VAHQEKGIAEPGLRPTGDSRQT HRRLDVERSTSVQEHMGGCHF SPPEREKLSTLRGIHQAPAL WQATDQWIDIEF/GLGQPEESL GR*ITRLQGKTL PFGSPIC

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12813	43181	A	12891	1	345	
12814	43182	A	12892	2	451	
12815	43183	A	12893	2	286	
12816	43184	A	12894	217	1071	GENPRSENTRLATILEVACCHF GSSPPPS\GSSGRKDPPLTFGDH EGTСКАEPPALGLTPEHKGNV GHAARIQQPGPLSLWSRKAGK GVQDCYIDLKQIKIDLDKFSDN PDGYIDVLQGLGQSFDLTWRNI MLLLNQTLTPNERSATITAARE FGDLWYLSQVNDRIAAEKREK FLTGQQA VPSVGSHWDTESEH GDWCCRHL L TCMLEGLRKTRK KPMNYSMMSTITQGKEENPTA FLERLREALRKHTSLSLDSIEGQ LILKDTFITQSAADIRK\NFKSPP
12817	43185	A	12895	1	756	
12818	43186	A	12896	473	1015	
12819	43187	C	12897	152	322	
12820	43188	A	12898	146	1079	PPCAVVCLLWIAAVYCLSTTFC APLCGQNTWLPKPCRNVNRAA SNASVSLSTVTLFSRLS*PQRKG SELLDSSGPLPASPLPLCSGVS PRAGLGSAPKIPFLGIREAKN PRSENTRLATILEAGHRHLGTS VSKDHPVTFWRPRDLQSDLK QIKIDLGKFSDNPDGYIDVLQEL GQSFDLTWRDIMLLLNQTLTPN ERSATITAAREFGDLWYISQVV AAVAGLVSEAVKIIQGSYCVDI HDVNGILTAKGDLWLSDNHLL KYQALLLEGPVLRRLRTCATLNP ATFLPDNEEKIEHNCCQVIAQT
12821	43189	A	12899	189	1798	

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12822	43190	A	12900	194	1729	NPAAQTPFFVVKGGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEAFTVL DLKDAFFCIPVHPDSQFLAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDTLVLQ YMDDLVLVTHSETWCHQATQA LLNFLATCGYKVSQNAQLCS QQVKNLGLKLSKGTRALSEERI QPILAYPHPKTLKQLRGFLGITS FCRIWIPRIKAVKLQIILQMEPQ MQSMTKIYHGPLDRPTSPSSNV NDIEGTNASDFPFLSQVLEQVV SPKGSKEAQCCVLRPLGCESNL KQIKIDLGKFSDDPDGYIDVLQ GLGQPYLTTWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKPIN*SMISTI TQGKEENPTAFLERLREALRKH
12823	43191	A	12901	1	642	
12824	43192	C	12902	54	254	
12825	43193	A	12903	32	221	NGVGHNRMGTNGSGGGGEWGP PAPASA*GCSLASAFASASPRW WFEMGCRGIYDAQQVALSRSF
12826	43194	A	12904	203	538	
12827	43195	B	12905	131	536	
12828	43196	A	12906	1	1251	
12829	43197	A	12907	38	475	ESERRGEFCLCKIIEQGRAVCV EDEQTSHFALTGNNGIYRKSQQ QWQQELSDLARDPPAQCSAGP VGDDMFHWQATIMGPNDSPYQ GGVFLLTIHFPTDYPFKPPKVA F\TTRIYHPNINSNG\SI CLDILRSQWSPAFNQFPKSS
12830	43198	A	12908	282	849	QSCPAAGIIKSFGRTFEHTPREV RKPDDKHTLLALKRINKDLSL ARDPPAQCS\AGPV\GDDMFHW QATIMG\PNDSPLYQGGVFLLTIH F\PT\DYFPKPP*GLHFTTRFY\HP \NINSKWAAFCLRYS*DSQW\SP ALTFSKVLLSI\CSLL\CDPNP\DA DPLVPGDWHGSY*NRTGDKYN RISREWTKQYAM
12831	43199	A	12909	1	397	
12832	43200	A	12910	245	535	
12833	43201	B	12911	68	333	
12834	43202	A	12912	265	562	

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12835	43203	A	12913	1	872	MVNTECQLDWIEGCKVLILGVS KEASQGLGGRSRGRNVRQSTD ADIRPTSEKDARSLMTTRQEDN ISVDQRGFLSGVQKKSGCANG KGSVCGGFYWMAVIRMGVG KAMGLNLKLGKFEIKKGYLKG CRDSLRLSPTGFGKFTATSHEV AATVPIKVVLTLQTHKILRG VFAHLTSCLQLHSLPPGSSMDS AKARRQLQVAGQGHSLVKQK GFHVEAPDHPVQLSDISCKSY RWGHKLIKINFLIPLWYYDL EEVKREQSEEKQQAIMADIIG DALNAQKAFKGNPKGHKPLPF SAGQMENW*CPECPSI
12836	43204	A	12914	7	231	
12837	43205	A	12915	1	223	MEILTTCDKGLIFTGNTRKSETS TSECTCPLDINCSLHSPSPSDE ETQHHTDSLHVRPRKGYLLCIY HIPDIVAVMVNIQCQLDWIEGC KVLFLGVSVKVLPKEINTGISGL GKADPPSIWKS*QHVTKDLYLQ VILENQLV PANALVRWILTVP FPTLLRALQMRKHSTTLTVCMS DRGKDIYCASTIYQI
12838	43206	A	12916	1083	1273	NKMSFKLKEDCFGRSKCNL*T* CWKSINEA*K/DLELQLQFGPQE KLFALEQQVKKKLNLPDA
12839	43207	C	12917	1	1506	
12840	43208	A	12918	3	1219	
12841	43209	A	12919	1	735	
12842	43210	A	12920	2	94	
12843	43211	A	12921	362	460	WLILSVNLIGLKDAKYCSCVCL *GCCQRRITF
12844	43212	A	12922	1235	1474	
12845	43213	A	12923	1	250	
12846	43214	A	12924	1	261	
12847	43215	A	12925	2	85	
12848	43216	A	12926	1	291	
12849	43217	A	12927	1	321	
12850	43218	A	12928	1	370	
12851	43219	A	12929	1	684	
12852	43220	C	12930	1	210	
12853	43221	A	12931	2	91	
12854	43222	A	12932	1	243	
12855	43223	A	12933	2	353	WMKLETHLSKLS*GQKTKHRM SSLIGSTDQQRLVVKNVQGRVC PGSTGHGAWEAWTAMRKVDS PLQTGSLRPGWCRQVGSHARS GSAEAAGNPGLHPGICPRVEDG IQVAENFPEV

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12856	43224	C	12934	1	289	
12857	43225	A	12935	1	1194	
12858	43226	A	12936	140	237	
12859	43227	A	12937	1	292	
12860	43228	A	12938	2	178	
12861	43229	B	12939	1	1245	
12862	43230	A	12940	2	241	
12863	43231	A	12941	1	675	
12864	43232	A	12942	1515	1920	TPTNLQEKNKQPHQKVGE GYE QTLLKRRHLCSQKTHGKNAHH HWPSEKCKSKPQ\WIPSISHQLE WQSLKSQETTGTWWMKLETIILS KLLQGQKTKHHMFSLIGGNRT RRTHGHRKGNITLWGLLSDSV NCASSSG
12865	43233	A	12943	608	891	
12866	43234	A	12944	1	3956	MGSCPGGFTAEFYQRYKEELVP FLLKLFQSIEKQGTLPNSFYEAS IILIPKPRDRTTKKENFRPISLMN IDAKILNKILTNR IQQHKKLIHH DQVGFIHGMQGWFNIRKSINVI QHINRTNDKKHMIISIDA EKAF DKIQQPFMLKTLNKLGTW MKL ETILSKRSQGQKTKHRMFSLIV NIPTIKILIKQNM TAME TLCPIF KLEGDTMDNPIANRRVRTAVP TSVVCLHVGTEPEARLPHGPMI TAQSPFG
12867	43235	A	12945	1	855	
12868	43236	A	12946	1	255	
12869	43237	A	12947	273	3484	
12870	43238	A	12948	3	377	
12871	43239	A	12949	85	333	
12872	43240	A	12952	22	308	
12873	43241	B	12953	30	383	
12874	43242	A	12954	3	448	
12875	43243	A	12955	1	453	
12876	43244	A	12956	3	491	
12877	43245	A	12957	2	749	
12878	43246	A	12958	155	637	
12879	43247	A	12959	1	510	
12880	43248	A	12960	2	559	RPHASAHASGRQRSQDVTTMV WALLLLTLLTQGTGSWAQSAL TQPPSASGSPGQSITISCTGLIND VASYNFVSWYQQHPGKAPKL MIYEVTKRPSG\VPDRFSGSKSG \NTASLDHLWGSRLDEADYYC LLICRRLHPGGGIRRWDPRTV LGSAQRPTPTVTSGSRPSSEGAP SQQGHTSVSDQ

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12881	43249	A	12961	1	1958	MSVQRKDRVRTQQGGSVASSM LTQEPVGSVALGQSARDRDPD CSDSVSVYLMDTWQSVIIGFAE SAATLGDPPELPMHPEGSEASY ELTQPPSVSVSPGQTARITCSGD ALPKQYAYWYQQKPGQAPVL VIYKDSERPSGIPERFSGSSSGTT VTLTISGVQAEDEADYYCQSAD SSGTYPTVTQADRETPTHQYSR HPSYAKGFVFLWGSWAQSALT QPASVSGSPGQSITISCTGTSSD VGSYNLVSWEYQQ/PQKAPKL MIYE/VDSKRPSGVSNRFGSKS G\NTASLTISGVPLRDEGVDYY CCSYAGSVASYELTQLPSVSVS PGQTARITCSGDVLGENYADW YQQKPGQAPELVIYEDSERYPG IPERFSGTSGNTTTLTISRVLTE DEADYYCLSGDEDNPSVTQAD GEDTGIRSHYEGTLALYLYPEP VKATCSVTSYVLTQPPSVSVAP GQTARITCGGNNIGSKSVHWY QQKPGQAPLVVYDDSDRPSGI PERFSGSNSGNTATLTISRVEAG DEADYYCQSLSTLGPCTLGDTV LRPMIYSVSIQASGVPDGFSGSK SGNTASMTISGFQAEDEADYYC NSHRRGSVVSELTQDPAVSVA LGQTVRITCQGDSLRSYYASW YQQHPGKAPKLIYDGH
12882	43250	A	12962	2	367	
12883	43251	A	12963	2	376	QTYSLRRATPRHIIVGFTKVEM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFDTKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
12884	43252	A	12964	2	1178	
12885	43253	A	12965	1	732	
12886	43254	B	12966	99	716	
12887	43255	A	12967	1	1011	

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12888	43256	A	12968	3	1263	GRTIQTGKGKEV\ENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERVVSAM EDEMNMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTQPQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTPQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
12889	43257	A	12969	1	1392	
12890	43258	A	12970	1	1224	
12891	43259	A	12971	1	970	
12892	43260	A	12972	1	954	MDGDLHKGVAVFWPPDAAGG HTCCRSMVCRSLGGAQWKFH SFRCRIRFELILHMIQERNINIS QKDVHTETPSETHHHQRPKVD KSMKMRRNQCKKAENSKNQK ASSPPKEHNSWRAREQNWTEN EFDKLTEVGFRRWVITNSSELK EHILTQCKEAKNLEKTLEELLT RITSLEKNINDLMKLKNTA*EL REAYTSINSQISQAEERISEIEDQ LNEMKHEHRIREKRMKRNKQS FQEIWDYVKRPNLRLISVPESD GENGNK*ENILQDII\QENFPNL ARQANIQIQEIQRTPQRYSSRRA TPRHIIVRFTKV
12893	43261	B	12973	1	1346	
12894	43262	A	12974	1	318	GSRGELLLSLCYNPSANSIIVNII KARNLKAMDIGGTSDPYVKVW LMYKDKRVEKKKTVTMKRNL NPNFNES\FAFDIP\TEK\LRETTII ITVMDKDKLSRNDVIGK
12895	43263	A	12975	17	389	SWGPHCTHKLKKSFSLMPMT DAMDRERM/RGSKKDV/R*VLG GCAATWTPRAGGRQQSPGTTV DKREDTPDCAMCDQSTSHPIA SSPSLLPGSSFTTQTFPPGIAHYR ASFLIVAYYPSNKNK

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12896	43264	A	12976	84	282	GEGQVGWPPQGEVQQDEEVIEE VGA*DAGSGYQEEEEGPQSLRR EVVGVELVVGADPSGEGPKED
12897	43265	A	12977	1	1179	
12898	43266	A	12978	3	634	
12899	43267	A	12979	234	619	CYVVQEVLPSSLCHCLVICSRP GRTAEWPPG*GF*SPPHRGWW GC*GHD/HRRGTSIFPTH/V*SPP ASYPGSLCRPGGQEEREREGEW QREGRRPGTR*CGAEAEARGW RAAAKATAVAGARNRRPGISG
12900	43268	A	12980	1	1182	
12901	43269	A	12981	3	763	
12902	43270	A	12982	32	949	
12903	43271	A	12983	1	1299	
12904	43272	A	12984	1	1176	
12905	43273	A	12985	1	421	
12906	43274	A	12986	81	404	VKFGPEIWCRDSDQGRGGVGT SLGRSIPCPPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPEPLELWPKAL*LTPSQIY SA*RLKTDAAARLPRKPPR
12907	43275	A	12987	1	378	
12908	43276	C	12988	1	751	
12909	43277	A	12989	302	629	ICLSYPAPPCKRFPHYTRVLYH* SLFNENTSQSCFTSR/WKLESFT TRAIERHQIPLL*ATLTLIRWLD KKLAFQLLSLTASFSPSYQSLPP TPPLKLPIISSHTRQMV
12910	43278	A	12990	14	380	
12911	43279	A	12991	189	608	QSDLSASQHGLFPLATEVRSSG AASCPDSDSICPAPTAPGRATP PQANCWASEGTLRYQALPGNR APVSQVSQAGGANLCVQQPKK HLTNFKSGKRPLFTLFSNLQGP RSRPVAFLSKQLDLTVLGWPSCL LVQQLLPP
12912	43280	A	12992	1	513	
12913	43281	A	12993	2	462	WSMGLPRRSGCVSLQPLSQEDL GRSQSESLGPEFQGLWEWLPEQ LPRSFQALGSLSYFPRTL MNLS WPLCLRKWGYL/SLYLPFQVGL PSTVPWPLILPSKVPEEEGQLQS TLPCGIKLLPVFTSHHAF LGVFC NQWVSDVFLALFLMKLLGAQ
12914	43282	A	12994	59	213	
12915	43283	A	12995	1	1159	
12916	43284	C	12996	1	864	
12917	43285	A	12997	1	1155	

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12918	43286	A	12998	879	1163	SRRPLFMGLVRVLCKMSGRGP LCFPGGHWIVFLWGGTVLWLW T*SPHWHRKAN*DLFLQKLPRL *VSHQCDPCLPVCHLWNCLFLL PLWGPPAG
12919	43287	A	12999	1	179	
12920	43288	C	13000	1	410	
12921	43289	A	13001	42	365	FGLRLSLAPPFCMFPLTT*HS*P SVLPASFPAALGIPQARAVTPFV SP*LLASLSFWAPPCSLCLDASV *HGSHLWHAQSSCRLRWSFGL AASQMQPEEP SHGPRRK
12922	43290	B	13002	1	741	
12923	43291	A	13003	8	265	
12924	43292	B	13004	1	646	
12925	43293	A	13005	1	1158	MKLVTIFLLVTISLCSYSGYWPE NEQMSVGGGDDNGEVLVSALR GASEVIGQCQSSATKPRRSCKE SVREPWARVPGALGVGVREID QTLGIDTILCHHHERLLQSHYGI HKSSLMSVGNSQVAALYQLNV YVVDVTVGLIISNSILDSVQPN YCSNKHIELRTQVGGARNLRA NSPMTSSYNQESSMENVSALS LLTVESPTSMFDYCDLSLERVK SALDIFSMIITYVTFFLAGNG LVIWVVGFMSTVNTCLPSDP HLHGPLTCDPVANLVLEQLHTS KGNSGALEDLAFGNLFLCSLLD LQGNSSWWKVSPSLYNQYDLQ NETQGSQHLWKEIIPW*PSAFV V/SSGYWPENEQMSVGGGDDN GEV/RVFRPEGGRGDRAVSFV SH*AEKIWEGISQAL/VPEFQG LWEWV/CREIDQTLGIDTILCHH HERLLQSHYGIHKSSLMSVGNS QVAALYQLNVYVVDVTVGLII KSNSILDSVQPNYCSNKHIELRT QVGGARNLRANSMTSSYNQE SSSMENVSALSLLTVESPTSMF DYCDLSLERVKSALDIFSMIITY VTFFLAGNGLVIWVVGFM SCTVNTCLPSDPLHGPLTCDP VANLVLEQLHTSKGNSGALED LAFGNLFLCSLLDLQGNSSWWK VSPSLYNQYDLQNETQGSQHL WKEIIPWHQTLVTTAHFFFGFF

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12926	43294	A	13006	3	371	AGARFNVRSR*RNDRVRPHRD VYSLQGRLSDHSPTFQGCQTQ GRLPWSFTLSGKFRFSGEGATT SPAHKNFQTPEPQWGPPEPPP TGACYTCRKSGHWAKECPQAR IPPKPHPICVGPH
12927	43295	A	13007	77	332	RWKKNCLSPRMS*QR*WKP* MQQAACSVGETQPPCTQVK*T ALLLTQSLFGGLFTRTHMKFGA VTRIGGPPLGDQSPVLLLFAP
12928	43296	A	13008	1048	1349	RVVEQDDAERLFRRFRAA/GDL PYGAFGEIF*ETQCQEMQQLA DHASVTMISLEAWRLYRKMVC RIWASMLRLSVCHLCAPKRVW SLISRNGYHLPFSIH
12929	43297	A	13009	213	499	PEQRTSHRQQRRQPPQSR*P FCPSLPRSALSFLCDGYAAP* AYRE*IPVTEDHFAE*I/ISWCPC *YREALGQLLAKMRR*SARKRF QLSP
12930	43298	A	13010	2	431	
12931	43299	A	13011	2	367	
12932	43300	B	13012	1107	2083	
12933	43301	B	13013	1	627	
12934	43302	A	13014	712	2671	AHVGRGST*ALPRAMGSDAF*C PLQ*MTPASFGSKAALS RVFIKE ALMMEDPCVVRKPLSAHMTA WWCRIWKAYLESV
12935	43303	A	13015	50	1362	WEQIPHGLVLSLQQLPRRSGSIS LQPLSQEDLGRSQSESLGPEFQ GLWQWLSDFQT*HQWVVS GFQ AFSDRLKAALSASLLRFGDSD WLPSSACKCLMLGLHFVIVGN ICATLKEKYSSMLHLDVTMCK NGEKRTLQKRKKGMPPHPAY EDLNIAAITLPANVVLHQPSGFR TSGQLDPVWWSLDTDAHEIWC QDPGLGSGDFPWEITPLSSYSLL HEKDPPTTSGPQTDQPKKHLTN FKSKTKETGFIHGPKTPAPVTD WEGSLPLVFNHCRDTSIIHPCF KGVRRRDACLGPSPLAASPAF LEKGQDLINLAFKVYNNRKKL QFLASTVRQTPATSPAHKNFQT TEPQQPGVPPEPPPTGACYMCR KIWPLGQANARSPGFLLSRVPS VWDPTGNRTVQLTWQPLPEPL ELWPKALCLTDSFPDLLGLAA
12936	43304	A	13016	1	507	
12937	43305	A	13017	5	271	
12938	43306	A	13018	1	618	

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12939	43307	A	13019	1	429	
12940	43308	A	13020	1	3567	
12941	43309	A	13021	1	353	
12942	43310	A	13022	1	338	
12943	43311	A	13023	1	1175	
12944	43312	A	13024	3	326	
12945	43313	A	13025	150	494	PSPSLGYLVGTRGTALRL*DAR AAMRPFDPSTLLPTCWDYWTY AGSLTTPPLTESVTWIIQKEPVE VAPSQLSAFRTLLFSALGEEEEK MMVNNYRPLQPLMNRKVWAS FQATNEG
12946	43314	A	13026	2	975	DSREHHLPTGVSNGRPMKMLG RNTWKTSASFSLVEQMWAFLW SRSMRPGRWCSQRSCAWQTSN NTLHPLWTPVSVPGGTRQSPI NIQWRDSVYDPQLKPLRVSYE AASCLYIWN TG YLFQVEFDDA TEASGISGGPLENH YRLKQFHF HWGAVNEGGEHTVDGHAYP AELHLVHWN SVKYQNYKEAV VGENGLAVIGVFLKLGAAHQ LQRLVDILPEIKHKIDARAAMR PFD PSTLLPTCWDYWTYAGSLT TPPLTESVTWIIQKEPVEVAPSQ LSAFRTLLFSALGEEEEKMMVN NYRPLQPLMNRKVWASFQATN
12947	43315	A	13027	1	1233	
12948	43316	A	13028	761	1000	IPFISFSCIALARTSNTMLNKSG ERGHPSLVPVFIGNASSFCPVSM ILAVGLS*IALIILRYVPSIPNLLR VFSMKGC
12949	43317	B	13029	697	1527	
12950	43318	A	13030	1	1695	
12951	43319	A	13031	434	925	VAKIFSHFVCCFLTMLMVVSFAV QKLFSILRSHLSILSFVAIDFGVL DMKSLPMPMS*MVMPRFSSRV FIVLGLTFKSLIHLELIFV*GVRK GSSFSFLHMASQFSQHLLNRE SFPHCLFFSGFSKIR*L*ICGIISE GSVMFH*SISLFWYQYHAVLVT VAL
12952	43320	A	13032	1124	1234	KITPKKQIRQSPNLTQNTGQQ*S LQLWEHFQISTHF
12953	43321	A	13033	929	1261	
12954	43322	A	13034	1118	1354	IPFISSCLIALARTSNTMLNRSGE RGHPCLVPVFKGNASSFFPFMSI LAVGLS*IALIILRYIPSIPSLLRV FSVKGC

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12955	43323	A	13035	2	348	HQHLLFPDFLMIAILTGMRWYL IVVLICISLRASDDEHF/YHVS GCINVFF*EISVHILRPLFDGVV* FFLVNLFKFFVDSGYEPFVRWV DCKNVLPFCRLPVHSDGSFFCC AEAL
12956	43324	A	13036	578	712	LISNFSKVSQYKINVPKSQAFLY TKNRQTAKS*VNSHSQLQRE
12957	43325	A	13037	1	1833	
12958	43326	B	13038	1	1587	
12959	43327	B	13039	1	1851	
12960	43328	A	13040	1349	1444	
12961	43329	A	13041	953	1277	MVLPRFSSRVFMVLGLTFKPLI HLELIFV*GVNFV*GSSFSFPHM ASQFSQHLLNRESFPHFLFLSG LSKIR*L*MCGIIEGVSFLHWS ESLFWYQYHAVLVTVAL
12962	43330	B	13042	804	4236	
12963	43331	A	13043	1	744	
12964	43332	A	13044	137	797	
12965	43333	A	13045	210	418	
12966	43334	A	13046	1	927	
12967	43335	A	13047	1	1415	MGFLGTGTWILVLVLPQAFPK PGGSQDKSLHNRELSAERPLNE QIAEAEDKIKKTYPPENKPGQ SNYSFVDNLNLLRAITEKEKIEK ERQSIRSSPLDNKLNVEDVDST KNRKLIDDYDSTKSGLDHKFQ DDPDGLHQLDGTPLTAEDIVHK IAARIYEENDRAVFDKIVSKLLN LGLITESQAHTLEDEVAEVLQK LISKEANNYEEDPNKPTSWTEN QAGKIPEKVTPMAAIQDGLAK GENDETVSNTLTLTNGLERRTK TYSEDNFRDFQYFPNFYALLKSI DSEKEAKEKETLITIMKTLDIV KMMVKYGTISPEEGVSYLEGL DEMIALQTKNKLEKNATDNIS KLFAPSEKSHEETDSTKEEAA KMEKEYGSLKDSTKDDNSNPG GKTDEPKGKNRSPWKPPIRKN EWLKKHDKKGNKEDYDPFQR* EVSFNNKADAIYVEKGILDKEE AEAIRIYSSL
12968	43336	A	13048	1	879	
12969	43337	A	13049	3	640	
12970	43338	A	13050	134	382	DGRQLRRGSLGGALTGRYLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPSLTASLPCVSKCW ENIPPWMN/WPPH*IKHIQS
12971	43339	A	13051	87	500	

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12972	43340	A	13052	1	1356	
12973	43341	A	13053	1	447	
12974	43342	A	13054	3	107	
12975	43343	A	13055	3	2377	
12976	43344	A	13056	1	2193	
12977	43345	A	13057	1	2724	
12978	43346	A	13058	253	490	QSSIPAIMSSFLGTGAETMPVPL GAGMRRTSTEPQRVCFTGIIF KTSSLREAPRKSMISDSLMGR E/WMPV\TKLGRLVKDMKIKSLE EIYLFSLPIKESEIIDFFLGASLKD EVLKIMPVQKQTRCGSVLVRLI PAPRGTVIVSAPVPKLLMMA GIDDCYTSARGCTATLGNF/AK ATFDAISKTYSYLTPDLWKETV FTKSPYQEFTDHLVKTHTRVSV QRTQAPAVATT
12979	43347	A	13059	1	819	
12980	43348	A	13060	1	623	MARRKNGKWESEIIDFCLGGSL KDEVLKIMPVQKQTRAGQCTR FKAFVAIGDYNHIGLGIKCSK E/LATAIRRAILAKLSIVPVCGR YWGNKISKPHIVPC\RGTVIVSA PVSKLLMMASINDCYTSARG CTAILGNFDKATFDAISKTYSYL TPNLWKETVFTKSPYQEFTDHL VKTYTRVSMQSTQAPALAKLP RVAVQPRAEV
12981	43349	A	13061	1	949	KWRITPVPTGRP/GGPGGPGMG KPRCF/RGEVFGIVIRAGSPGPG TGPGRG\GEAAGAKAED*E\WM PV\TKLGRLVKDMKIKSLEEIYL FSLAIKKSEIMSFLLGGLLSRDE VFE*LCPVQEQ\TRAGQ/RATRF KAFVALTTLTGTTNG\HVGLGC* VPPREVATGNSWGPFILGQALH SSPVRRGLLGGTKNSAKPPTLV PWQR*PRAACGLCAGYAFIPLQ PRGQLASVSA\VPV\KLLMMA GTDG\CNNSQRRGCTATVG\NL AKATTFDAISKTYSYLTPDLWK ETVFTKSPYQEFTDHLVKTHTR VSVQRTQAPAGATT
12982	43350	A	13062	92	265	SFELFADKVPKTA/WLDGKHVV FGKVKEGMNIVEAMERFGSRN GKTSKKITIADCGQLE

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12983	43351	A	13063	2	797	NRVLLAMVNPTVFFDIAVDGEP LGRVSFEVRGLDTKK*LLI*SIK LC*QIG\LFADKVPKTAENFR/A L*SIEEKGFGL*GVPCFHRLFP VLCVRGGDFHTAINGT\GGKSI\ YGEK\FEDENF\MLKHTGPGILSH GKMLDPNTNGSQFFICTAKT\VE WLDGKHV\VFGKVKEGMNIVE AMEA\FGSRDCKTSKKITIA\DF GQLRIKFDFVFLSLTTKIISFCAL LSGEHPLHPIWLGVILESMWLS LAVPFWVPCFPCSLPCLAGLQS
12984	43352	A	13064	1	720	
12985	43353	B	13065	98	2074	
12986	43354	A	13066	596	841	
12987	43355	A	13067	66	326	
12988	43356	A	13068	1	441	
12989	43357	A	13069	2	325	WCPSQAAAAGARATRDMPEGS MTCLCRALWWLFSWLKVHR*R QGQQGRPAAPSAGPAKPTPTRN SSWLLLAAPVPTRTSPSTPPCKL REPAPALASPERGSHSAAVG
12990	43358	A	13070	38	1066	
12991	43359	B	13071	1	324	
12992	43360	A	13072	2	680	
12993	43361	A	13073	2	165	
12994	43362	A	13074	1	1110	MASLLKSARPQTHWKEETPETS KRLKEQTPDIPSLRAVTLIAKVH SFIPEVCETKNPLEGIHSGHILAP NVGPSPSRRQARVQVFENVSVR ATKSDLPQSSLWSRRKTTVSAA ASKKTSKEISKGPQKPPGY/PVT SPSSCRGRGIWPNP/EYMSTSPS LI*/SIKVDLGKISDDPDYIDV LQGLGQTLDSLWRDVMMLLDQ TLAFNEKNAALAAAEFGDTW YLSEVNDRMTAEERDKFPTED GEPIKDCQQIIVQTYAAQDDIL EVPLANPDLNLYTDGSSFVENG IRRAGYAIVSDVTILERPNLFRA IQQVVKACEVCQRKNPLVHPP NYLYKTLNLTHSLNQSNPSLA NDCWLCSSLSVSAEPYN

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12995	43363	A	13075	450	1776	RGGRACLRP*AA/SPGPSTP*WP PPRGVQAAAILSGPPRPAPPKG AASQRLCGGFVEARQAWVGRR GGRRGPVGETQPPPSVIQPPSRG AG/PRDQQPAMPEPPTPSVGSC AARASQISAAPCSTAPSPIDHPR AEECRRTVWDWQAAPPAAQV RDPLGEASWAPESGGDVENLY VLLRDCKYTSQHPVSSSGSVNA PIDTLYLATLLRDCKYTNRHSV SSSRFVNTPISTVSSEFANAPID TLHLATLKEETPNTSEHQEQT PDMPLRTVTVTARVRGFILDV SETKNPPIPDTFWRPRWDLRQS PSNQTLAFNEKNAALAAQEF GDTWYLSQVNDGMTAEERDKF PTEFIPSSGFLVLLTSRMKPQTF AASVTALKDGVSRVCSFRCVQS FFLPSADWCYKPLARYRALIG AFLQSAHWCVYKPLARHSVLI GAFTNL
12996	43364	B	13076	1	1999	
12997	43365	A	13077	3	469	
12998	43366	A	13078	224	410	
12999	43367	A	13079	478	675	
13000	43368	C	13080	55	237	
13001	43369	A	13081	109	239	
13002	43370	A	13082	2	88	
13003	43371	A	13083	2	178	
13004	43372	C	13084	278	460	
13005	43373	C	13085	50	217	
13006	43374	A	13086	3	251	
13007	43375	A	13087	1	759	
13008	43376	A	13088	2	604	
13009	43377	A	13089	1	558	
13010	43378	A	13090	3	1055	
13011	43379	A	13091	1	466	MDKFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQLISNFSKVSIGYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILPK
13012	43380	A	13092	2	848	
13013	43381	A	13093	458	625	
13014	43382	A	13094	482	745	

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13015	43383	A	13095	1	742	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIWHINRTKDKNHMISIDAE KVFDKIQQPFMLKTLNKLIDG TYLKILRAIYDKPTANIILNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLGKE EVKPSLFADDVIVYLENPIISVQ NLLKLISNFSKIKYLGQLTRNV KYLFKENYKSLLEIKEDTNK WKNIPCSWIGRINIVKMAILPK
13016	43384	A	13096	1	1458	
13017	43385	A	13097	2	1624	
13018	43386	A	13098	1	1095	
13019	43387	A	13099	1	2913	
13020	43388	A	13100	2	1887	
13021	43389	A	13101	1	972	
13022	43390	A	13102	1	873	
13023	43391	A	13103	1	1365	
13024	43392	A	13104	1	867	
13025	43393	A	13105	1	591	
13026	43394	A	13106	1	990	
13027	43395	A	13107	1	2109	
13028	43396	A	13108	1	843	
13029	43397	A	13109	1	1203	
13030	43398	B	13110	1	1221	
13031	43399	A	13111	1	1092	
13032	43400	A	13112	1	931	
13033	43401	A	13113	1	1293	
13034	43402	A	13114	1	544	
13035	43403	A	13115	3	718	
13036	43404	A	13116	693	1397	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYRF SAIPIKLPMFTFFTELEKKNWLAI CRKLKLDFFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATKAKRA SAQQKKLPSE
13037	43405	A	13117	1	2814	
13038	43406	A	13118	1	1302	
13039	43407	A	13119	1	1542	
13040	43408	A	13120	3	1327	
13041	43409	A	13121	1	1023	
13042	43410	A	13122	1	1448	
13043	43411	A	13123	1	1038	
13044	43412	A	13124	3	1711	

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13045	43413	B	13125	1	1756	
13046	43414	A	13126	1	923	
13047	43415	B	13127	1	1515	
13048	43416	B	13128	1	1560	
13049	43417	A	13129	1	4032	
13050	43418	A	13130	1	2684	MVKGSIQQEELTILNIYAPNTG APRFKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLS DHS AIKLELRIKNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEKETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DTFLDITYTLPRLNQEEVESLNR PITGSEIVAIHNSLPTKKSPGPDG FTAIFYQRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLARAIQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTKNRQTESQLMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYR FNAIPIKLPMFTFFTELEKTTLKFI WNQKRARIAKSILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIIPHIYN HLIFDKPEKNKQWGKDSL FNK WCWENWLAICRRLKLDPFLTP
13051	43419	A	13131	1	1149	
13052	43420	A	13132	127	329	
13053	43421	A	13133	1	1132	
13054	43422	A	13134	1	1020	
13055	43423	A	13135	803	2009	
13056	43424	A	13136	1	1944	
13057	43425	A	13137	1	1282	
13058	43426	A	13138	1	2423	
13059	43427	A	13139	1	2694	
13060	43428	A	13140	1	1195	

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13061	43429	A	13141	6082	6984	KLAQDRDALSPLLFNIVLEVL ARAIQEKEIKGIQLGKEEVKLS LFADDMIVYLENPV\SAPKSPL RLISNVSKV*GYKINVQKS/QA FLYTNNTDKQESQIMSELPFTT ASKRIKYLGIQLTRDVKDLFKE NYKPLLKE\IKEDTNKWKNIPCS WVGRINIMKMAILPKVN\YRFI NSMPSIPIKL\PMFTFFTELEKNYF KVHMEPKKSPHCQVNPKTKEQ SWRHQRYLTSNYILQGYSNQK STISMVLVPKQHGTGKTEIIDQ WNRTEPSEITPHIYNILFDKPL LEKNKQWGKGFP
13062	43430	A	13142	193	335	MVEEKLTLPKDEK*KSKQRSIY RKTLQELKNKNEKRNRKNKW QVKTH
13063	43431	A	13143	131	427	
13064	43432	A	13144	1	360	
13065	43433	A	13145	2	376	
13066	43434	A	13146	1	360	
13067	43435	A	13147	2	376	
13068	43436	A	13148	3	469	
13069	43437	A	13149	224	410	
13070	43438	A	13150	478	675	
13071	43439	A	13151	32	161	
13072	43440	A	13152	1	1671	
13073	43441	A	13153	1	1656	
13074	43442	A	13154	62	1295	
13075	43443	B	13155	149	320	
13076	43444	A	13156	12	89	
13077	43445	A	13157	28	417	
13078	43446	A	13158	2	440	
13079	43447	A	13159	190	553	EIVREGASFSSIRHLRWSRHRKC RFSVKTLTGEDPSTLEV\EPS\DT IE\NVKAK\IQDKEG\PPDQQRL/ VSFAGKQL\EDGRDSLGSY\NIQ KGSLLLHPCV*DFRGGAKKKEE ESLYTTSPRKD
13080	43448	A	13160	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPVGPRTHPVVFVPECRIG RDILSSWQNPHTGSLTGRVRAF MVGKAKWKP*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRRG VVIPTTSRFNSPIWPVQKTDGS W*TAADY

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13081	43449	A	13161	5	405	HCCGIPHSIASEQDTYFMAKEV WQWAHAHGIHWSYHVP HHLE AAGLIEQWNGLLMSQLQHQLG DNTLQGWGKVLQKV VYALNQ RSIYGTVSPIARIHGSRNQGVEV EVALLTVTPNDPL/GKY*LPVPV TLHSDR
13082	43450	A	13162	138	387	
13083	43451	C	13163	184	297	
13084	43452	A	13164	1	430	
13085	43453	A	13165	1	867	
13086	43454	A	13166	35	601	CLSRRASPVYLASMSGRGKTG G\KARA\KAMSRSSRAGRPSQ VGR\VHRLLRKGHYAERVIGRR QPCCYLGG*CMEYLT*ESWS MAG\NAARNN\KKTRIIP\RHLQ\ LA\IRNDEELNKLAWAALTIAQ GSR/VLPNIQARCCGPR*TSATV G\PKAPSGGEERATQASARSTK RARAAAGRPSVPMPPQRP
13087	43455	C	13167	11	313	
13088	43456	B	13168	1	552	
13089	43457	A	13169	1	621	
13090	43458	A	13170	55	296	
13091	43459	A	13171	959	1182	WVYLF*PSCKGVIYP*AAGFESI FWWVTINKNIDWINIYYNQ QFMNYTRDAVKGIAEQLGTNC QMAWENRIALDMILAERGGVC IMIKTECCAFIPNNTAPNGSITK ALQGLTALSNELASSSGVNDPF TGWLEKWFGKWKGITASILTS TAVMGVLILVGCCVIPICGLV QRHRGPPLVVIETKPLGLERLA GLPVGHALKLGSGIQATPQNGE NADRREAFPAAS
13092	43460	A	13172	1	540	
13093	43461	A	13173	2	142	
13094	43462	A	13174	42	384	
13095	43463	A	13175	102	329	
13096	43464	A	13176	1	1257	
13097	43465	A	13177	1	378	
13098	43466	A	13178	1	1143	
13099	43467	A	13179	1	481	SDSELNRPRVTMKNPFVTSR SKNRKRHFNAPSHVRRKIMSSP LSKELRQKYNVRSMPIRKTDEV \QVVRGHYKGQQIGQGSRCR KKYVIYIER\VQREK\ANGTNCS TWGISPKARWLFTRLKLDKDR KKILERKAKSRQVGKEKGKYK EELIEKMQE

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13100	43468	A	13180	39	556	AAAGYFAEDCEASCVCVKHPP SVKKARCFLSELIKPSGGSVTL SESTAIISHGTTGLVTWDATLYL AEWAIENPAAFTNRTVLELGSG AGLTG/VAICKMYRPRAFIFSDC HSRVLEQLRGNVLLNGLSLEAD ITANLDSPRVTVAQLDWDVAT VHQLSAFQPDVVIAADVLY
13101	43469	A	13181	46	231	
13102	43470	A	13182	1	1503	
13103	43471	A	13183	3	340	FFFANTFYCVFNVLVNAPLRFL SLPSTQSLEAKLRDSSDSELRRD ILQKVRIPESLGLMTLPPESLRK T*EKNRRCACTL*K\TPVQRTKP LSQHCRVWVAPPTAPALSFSKT
13104	43472	A	13184	2	594	
13105	43473	A	13185	1	1470	
13106	43474	B	13186	79	1355	
13107	43475	A	13187	248	540	
13108	43476	A	13188	386	1388	
13109	43477	A	13189	386	1334	
13110	43478	A	13190	3873	4070	
13111	43479	A	13191	146	510	PPCAVVCLLWIAAVYCLSTTFC APLCGQNTWLPKPCRHNRAA SNASVSLSTVTLSRSL*PQRKG SELLDSSGPLPASPLPLCSGVS PRAGLGSAPKIPFLGIREAKN PRSENTRLTT
13112	43480	A	13192	21	95	KCSSNGAPDAVHE*DLPWTPGP AC
13113	43481	B	13193	1	477	
13114	43482	A	13194	228	935	PLSSSMAAELEFAQIIIVVVTV MVVVIVCLLNHYKVSTRSFNR PNQSRREDGLPQIMHAPRSRD RFTAPSFQDRFRSFPQTPYV QHEIDLPTISLSDGVEEPLLYQV PCTLQLRDPEQQMELNRESVRA PPNRTIFDS\DLIDIAMYSGGPCP PSSNSGISASTCSSNGRMEGPPP TYSEVMGHHPGASFLHHQRSN AHRGSRLQFQQNNAESTIVPIK GKDRKPGNLV

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13115	43483	A	13195	526	1629	FYSFDSARGEPARPWRVRGLEG RVELGQQLGLLTLGPAFPGGGLG GTQRVGLPGPAGPGAGEEGQA GPAEAGQVPVGGGLADEAVEHG VGDAVEAGEQEGEVVGVENAL GEVAAGLPDAAHQHVVVGQ EAGQEDDHGAHQPLDLVLAA LLGAVAPAHGAQDALVGRQQ QADGEEEE/LPGSGSS*WHAAM PGWGSAQSTRGAGSRPR*PPRA SGSRCWSAAPWPR*PR*RRRPP SGSGTGGSGRDGPQPGSGPR/T MQQRKPTLM*MFSYRR\IRTPG RTGRRETSCRAAAARTAAARRA SRCRRGRPPSGCTGTRPARSGP* SAGS\EVEGQAVGREAHHQHG NIDHRGQRLVDGMVDGTAHRG VVCSDVPH
13116	43484	B	13196	2699	7361	
13117	43485	A	13197	67	1523	
13118	43486	A	13198	1	287	
13119	43487	A	13199	2	563	
13120	43488	A	13200	96	401	
13121	43489	B	13201	1	480	
13122	43490	A	13202	1	924	
13123	43491	B	13203	13	1512	
13124	43492	A	13204	1	402	
13125	43493	A	13205	609	803	RDPRHNPSSA\FQAGGIALMLLI TRGEDLTGGVIHQYPPGPMNL WMQGTAGNQRRAAENAAQQQ
13126	43494	A	13206	3	526	VTETALTPYLVAKHGYFLPQD LAKRTETMNWFLWLQGAAPFL GGGFGHFYHYAPVKIEYAINRF TMEAKRLLDVLDKQLAQHKFV AGDEYTIADMAIWPWFGNVVL GGVYDAAEFLDAGSYKHVQR WAKEVGERPAVKRGRIVNPTN GPLNEQLHERHDPDFQTNTN\N NRQG
13127	43495	A	13207	1	250	
13128	43496	A	13208	1	489	
13129	43497	A	13209	209	601	
13130	43498	A	13210	1	96	
13131	43499	A	13211	1	1110	
13132	43500	A	13212	1	595	
13133	43501	A	13213	1	240	
13134	43502	A	13214	1	675	
13135	43503	A	13215	1766	1957	
13136	43504	A	13216	1	426	
13137	43505	B	13217	94	3238	
13138	43506	A	13218	1	2370	

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13139	43507	A	13219	1	2796	
13140	43508	B	13220	43	566	
13141	43509	A	13221	1	903	
13142	43510	A	13222	3	110	
13143	43511	A	13223	2	755	
13144	43512	A	13224	1	1338	
13145	43513	A	13225	1	807	
13146	43514	A	13226	1	918	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDAC\LSNAILVHNKKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPA\VPTSLKWWKTGPTH WPMA*KA*SVSPRRSDGIRSKN DVIDTSDDDM**QCLSRRSN\G HPGAKVANLVPKTTFIDGVDQT SFFLTNGQSNRKAHEYFLNGK LAAVRMDEFKYHVLIQPPYAY TQSGYQGGFTGTVMQTAGSSV FNLYTDPQESDSIGVRHIPMGV PLQTEMHAYMEILKKYPPRAQI
13147	43515	A	13227	1475	2904	FWRAAAPIDCWRSRGAVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQPPYAYTQSGYQGGFTGT VMQTAGSSVFNLTYTDPQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRATGFIFGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLTVVFFPVLH KQAFDLISLLLQPPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAVQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLPELHQAQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLKGIG ATHLHEGRDPRILTRS QLRLQ LAWPQQQGRYPLTYHLFLGVI
13148	43516	A	13228	215	525	LAWARRCRLLAKATSLIRAPS SEMRASPCRGQRRPSGYSWY GRSPRAVLEGLRVGAHLSTRAN CPWPSR/SQVVELIPDGFVFLD FTKIPGRDTQNEHIVLLH
13149	43517	A	13229	1	942	
13150	43518	B	13230	1	1201	
13151	43519	A	13231	685	921	

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13152	43520	A	13232	2	251	
13153	43521	A	13233	2	100	
13154	43522	A	13234	5	1093	
13155	43523	A	13235	2	482	
13156	43524	A	13236	1	2496	
13157	43525	A	13237	572	912	RCRPDKAFTPHPAIGARCLMRR LRVLSCLQPLPNVGWIRRLRRIR QFSAPDEGAKCRVAILQ/DFDA QYGRFLEVTSGAQQRFEQTD*K HAAALPFFFPSSAYSALAAISVVF GFR
13158	43526	C	13238	5	127	
13159	43527	A	13239	1	444	
13160	43528	A	13240	17	261	
13161	43529	A	13241	173	397	
13162	43530	A	13242	169	421	LKPKNLDEKLLPASSSSCRIWA TSPVHHLWQVLKKILFGWNPT KSPRCLS/TRQAMFSLSKKASLP WTIAARSADQRCRTRIAEL
13163	43531	A	13243	17	744	RPHQEQRAGCGVNALSSLRSA TAVGMIRRASVASG/DRAPIAG CGVNALSGLHRHFIEVTCTHFL LVRYEGIAIFRGGKFRLHFLN VVLHTLALGIGVCQVKHVEPH AVDTCQGDELELVAHIRQLLE AGNSFVVEVYLPVERRRAVISQ QFARIFRVDSLCKATRQFQIRRG RSHQTGQHMGIIRRVDAHAD DRRTSGRVPLIQVCPAHSSEA VVVVDVDVDVDVDVDVIGAV
13164	43532	A	13244	954	1104	
13165	43533	B	13245	54	1169	
13166	43534	A	13246	35	3066	VGHSTRPAASPGPAAGIGRSPA RLVQQPQRSKAPLNRPAAQR GLLPQRRHPKTRKRRKQAQN PQKRLPHRQPVRRRHRHRRLL QKMRRPDKRQQRRAAPRRHPR RRQRLAVRRRQLRAKVRRNP RQAPRQQLNGQRILHPPWRLR MQVRRKRG*YSSAVRPTVRLK RWRQRQRQ*NQPMQMQRNVC RKTRTALIYP/YKGCFLNNINAV SKTDFADKRGMRVVRVNAPAG ATSGKYYPVVVMRSAGSFHI
13167	43535	A	13247	1	2919	

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13168	43536	A	13248	1	3211	MEFTSLTPDDLRLVLELYRTPFS DGYVFHSMQFHIFDLLKSGQN VVL SAPTSMGKSAIVDSL LGMG TLKRLVLVVPTVALADETRRRL QERFGDRYQIIHHSSQVCHSDQ AVYVLTQERVNERDDIVIDLDF VIDEFYKLA FRQLKSGDIDHQD ERVIELNIALSKLLK VSRQFYLT GPFVNSIRGLEKLGYPTHFVST DFNTVALDVKTSASKRMTTKP SSKRWGKSRTCVDADHIKNGIG LHFGALPRALQQYT
13169	43537	A	13249	486	3882	LRLRGEALPVASGCLANATDTP AGTTLWADTERHAVQ**TCEA DTLGSCGYAAKPCLSPVAVWQ MLLTRLLEQHYGLTLNDTPFSD EPVLTAPIDAAAALRGIEFGKFQL GNMVVGDIIECGSDVTDYAVG DSVCGYGPLSETVIINAVNNYK LRKMPQGSSWKNAV CYDPAQF AMSGVRDANGARRGFWWGGL GAIRVQLAFKWLNAAGRLPGG GLGGPIPYSAHRCDIARRHGAD FCLNPIGTDVGKEIKLTG
13170	43538	B	13250	1	1116	
13171	43539	A	13251	729	985	SAPPQLAPSLPDRATDPDTCWP PG*RPARYLPSRQIDCFNTRFRL QRLTASQCAEAVDVAFRLTV QQTPHFRCAQLRQRAFRID
13172	43540	A	13252	395	605	
13173	43541	A	13253	1	1140	MIYVFVTVKHRNDHFTKNTLA SYRGRTLLGTLFKGVYHLYKD ETYLYQSGKGHTIQEVRIKGL NNPDLDAAVGEDLAQQLRDEL ELVKGASNEFDKELFLAGEITP VFFGTALGNFGVDHMLDGLVE WAPAPMPRQTDTRTVEASEDK FTGFVFKIQANMDPKHRDRVA FMRVVS GKY EKGMKLRQVRT AKDVVISDALTFMAGDRSH/AY PGDILGLHNHGHTIQIGDTFTQG EMMKFTGIPNFAPELFRIRLK DPLKQKQLLKGLVQLSEEGAV QVFRPISNNDLIVGAVGVLQFD VVVARLKSEYNVEAVYESVNV ATARWVECADAKKFEFKRKN ESQLALDGGDNLAYIATSMVN LRLAQERYPDVQFHQTREH
13174	43542	A	13254	1	1495	

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13175	43543	A	13255	372	1365	IRYFENRGLFAHCATRTGQFPF HCILASYKCGEQPDSSSNHPRN LFVWRSNLLGSSG\KGHEYMQ KYLLGTESGIQGEELGASDGIKP EEVEWQTAAIEGKLDLLVTLDF RMSSTCLFSDIVLPTATWYEKD DMNTSDMHPFIHPLSAAVDPA WESRSDWEIYKGIKAFSQCVCV GHLGKETDVVLQPLLHDSPAEL SQPCEVLDWRKGECDLIPGKTA PNIVAVERDYPATYERFTSLGP LMDKLGNGMDLTDYANMALSI PSANTDIWNLEQDTVGTRLTNS RHGLADNGGAWVSYFGGNFN GDNGTINYDQDVNGIMVGVD KIDGNDG
13176	43544	A	13256	3	1444	
13177	43545	A	13257	61	1058	LPYLIALLARAWFNGLLTSTRTR LYIKNGIVDLPKLQEMVADV HHFPLRLPAPTPKALYSPCEIRH LAINVNLEYDPTAAFRNQVVHF DFRKLDVFSFGENQNCLVGNV DLL\YRNSWNEVRTLHFNGEQS MIEALKTILGKMHQDAAPPDSV EVFCYSQHLRGLIRTRVQQLVS ECIELRLSSTRQETGRFKALRVS GQTWGLFFERLNVSVQKLENAI EFYGAISHNKLHGLSVQVETNH VKLPAVVDGFASEGIIQFFFEET QDENGFNIIYILDESNRVEVYHH CEGSKEELVRDVSRYSSSHDR FTYGSSFINFNLQDPYLARVSI
13178	43546	A	13258	1	1133	
13179	43547	A	13259	2	240	ISSARHFGALACTLELGKALTF GQNDLRQFAVTASAI AALL/SR HSPSFEMHMASDTLNFMPFEK GTLLAQDGEERFTVTH
13180	43548	A	13260	1	358	LPFLPSGLRGLAAENKIRRHSA GSFLGPPCGLRGKLV/ISAAALM STTIPISRVQGLLQFLNSKSPISR AERSWSTFGASAAFLTTLASLL FLFPPLAISSLANSFAKVFPPTPC AGSP
13181	43549	A	13261	1	1635	
13182	43550	A	13262	1	1363	
13183	43551	A	13263	5	249	
13184	43552	A	13264	15	280	
13185	43553	A	13265	6	363	

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13186	43554	A	13266	78	346	TRYAMLTRHDNHL SKFY LARG RYRADFHAPETNTGERCYRYK PLPYWLE*RRGRNRYPALQ*TM FLPADGPARCLSRQAAILKESV LPK
13187	43555	A	13267	568	831	ELQRHVLVVFAGFWIVKNSRN LFLVCRAEHKRSVVKGLLRQQ GQGFWFHFQDGF AVEVGNAN VIGSE*IVFGIVFPHRERCLVDK
13188	43556	A	13268	3	419	
13189	43557	A	13269	1	561	
13190	43558	A	13270	1	741	
13191	43559	A	13271	2	1040	
13192	43560	B	13272	1	1974	
13193	43561	A	13273	2111	2340	EVFIRDKLMERRNRRTGRTEKA /RDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPVKVLQSQCI
13194	43562	A	13274	470	813	KTTSFPAKLFNACRISLLASAEV NPNISAYLATWISQIPSCSCRVP SDFLIWSTNRYRSIRF*SRERLVG EAVA/AAAADGVTFSVPVTPHT FRHSYAMHMLYAGIPLKVLQS LMGH
13195	43563	C	13275	440	1180	
13196	43564	A	13276	1	1290	
13197	43565	A	13277	1	1036	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMENTSRRFEQRGFEPDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMLVKNVVRETDEVG KDPRPLPYLGHDEPYTFDINLS VNLKSMVVGGTDMGQEPLKQ MGAWGPLSLKAMFGFFIRGYG FFTPFGRTLPLGFGSTPPFTFPL LTKTIGVFILDKLMERRNRRTG RTEKARIWEVTDRTVRTWIGEA GAAAAADGVTFSVSVTPHTFR HSYAMHMLYAGIPLKDLQSLM GHKSISSTEGYTKDFSLDVG\AR HRVQF\AMP\ESDA\AMLKQLF
13198	43566	A	13278	366	672	RNGTHPRYIEAVPWGALPAD/G VTFSVPV/TPHTFRHSYAMHML YAGIPLKVLQSRLALRELQQA V HAGLPQQA KILFDGGSEIGKIPH IVLYKPVQCSLWAFVH
13199	43567	A	13279	2602	2976	
13200	43568	A	13280	982	1347	
13201	43569	A	13281	1	780	
13202	43570	A	13282	568	891	

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13203	43571	A	13283	1	718	MKEKPSSPRQYSYFLSSMILLG GGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSPVTPHTFRHSYAM HMLYAGIPLKVLQSLMGHKSIS STEVYTK\VFALDVAAPHPESTP VHLPSRENKIPPPIMRIPCGLPTS PIEQKQGKISATGTQWRRLKQE TRLSSVSARLMSYVGVMC
13204	43572	A	13284	1	496	AMFGFFIRGYGFFTPFGRTLFPPL GFGSTPPFTFPLLTKTIGVFILDK LMERRNRRTGRTEKARIWEVT DRTVRTWIGEAGAAAAADGVT FSVSVTPHTFRHSYAMHMLYA GIPLKDLQSLMGHKSISSTEGYT KDFSLDVGARHRVQFAMPÆES DAVAMLKQLF
13205	43573	A	13285	2	545	
13206	43574	B	13286	1	735	
13207	43575	A	13287	1	1599	
13208	43576	A	13288	583	1005	
13209	43577	B	13289	31	1239	
13210	43578	A	13290	1	1023	
13211	43579	A	13291	1	933	
13212	43580	A	13292	1	1278	
13213	43581	A	13293	1	705	
13214	43582	A	13294	2	893	
13215	43583	A	13295	88	429	
13216	43584	B	13296	1	1419	
13217	43585	A	13297	1	2784	
13218	43586	A	13298	163	416	RNGTHPRYIEAVPWGALPAD/G VTFSVPV/TPHTFRHSYAMHML YAGIPLKVLQSRLALRELQQAV HAGLPQQA KILFDGGSEIGKI
13219	43587	A	13299	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSLFLEAACHDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRHRLHR PQQSPPLGIPHPSLL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13220	43588	B	13300	1	858	
13221	43589	B	13301	1	1098	

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13222	43590	A	13302	1	1047	MNRQLSDSYTEDTKEPSDVTTS ERTRSPPGSAKTTMIDTLKKLQ DVLKTEDSKNPTKSAADLLEQ YVKATGPIIEILQKATKTMEMI MIVEEKASDELQDPPELQQRYI HSVRGKPGLVKQRTQEIETRLR LAGLTVSSPLKRSHSLAKLGSL TFSTEDLSSRPPGPPGPPGLHP GPPRRPPPKLPPAPPGCSVHC CHYPLHFVVSPLGFGYCSLMRI QIVFVTAHVHDSALLPLDASL APEALQNFQRYTGIIHVHRIGM AERMWCDNRNRERTVSSSGGN RLPNAPLPNPGVLSAPPNLIQR PKADDTSAATIEKKATATISAK PQITNPKAEIT*NPRVWQGSWI GEAVAAAAADGVTFSVPVTPH TFRHSYAMHMLYAGIPLKVLQ SLRSQ*SVRGKPGLVKQRTQEI ETRLRLAGLTVSSPLKRSHSLA KLGSLTFSTEDLSSRPPGPPGP PPGLHPGPPRRPPPKLPPAPP GCSVHCCHYPLHFVVSPLGFGY CSLMRIQIVFVTAHVHDSALL PLDASLAPEALQNFQRYTGIIH VHRIGMAERMWCDNRNRERT VSSSGGNRLPNAPLPNPGVLS APPNLIQRPKADDTSAATIEKK ATATISAKPQITNPKAEITRFCPL
13223	43591	B	13303	1	1185	
13224	43592	A	13304	529	774	
13225	43593	B	13305	1	1089	
13226	43594	A	13306	712	1024	GVESNLVVVVALCHRLIYLVW GTRTVRTWIGEAVAAAAADGV TFSVAVTPHTFRHSYAMHMLY AGIPLKVLQSRVVALDVAARH RVQFAMPESDAVAMLKQLS
13227	43595	A	13307	556	1040	
13228	43596	A	13308	1	984	
13229	43597	A	13309	95	428	
13230	43598	C	13310	1	426	

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13231	43599	A	13311	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSPV VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKP DGS CIVSLKIDWIIERYQLPQSYQLY YFELAIPVG YFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADV LIVPTPAELFDYTSALQ FFDMLRDL LKNVDLKGFE PDV RILLTKYSNSNGSQSPWMEEQI RDWGSMLKNVVRETDEVG KARLTWIGTINVVCAADV LIV PTPAELFDYTSALQFFDMLRDL LKNVDLKGFE PDVRILLTKYSN SNGSQSPWMEEQIRDAWGSML LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
13232	43600	A	13312	1	1593	
13233	43601	A	13313	1	2536	
13234	43602	A	13314	887	1205	RPEKAR/IWGVTDRTVRTWIGR AVAAAAADGVTFSPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVAAR RHRVQFAMPESDAVAMLKQLS
13235	43603	A	13315	79	351	
13236	43604	A	13316	1	2320	
13237	43605	A	13317	187	798	
13238	43606	A	13318	2089	2610	
13239	43607	A	13319	1	1407	
13240	43608	B	13320	154	3682	
13241	43609	A	13321	1	1206	
13242	43610	A	13322	1	255	

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13243	43611	A	13323	3058	3160	GSAA*LPPPLPAAFGSCWLSQ RHPHVLV*NEIYHLLH*KSFTSC *HNLSS*PRYPYLSSERVLW*CL SFISKI*SVTMP*SDLISLW*KLE PLTCRSTSHFRQKLAQ/RLP/AY QQGHQDLFILRSDLPSQVFIRDK LMERRNRRTGRTEKARIWEVT DRTVRTWIGEAVAAAAADGVT FSVPVTPHTFRHSYAMHMLYA GIPLKVLQSLMGHKSISSTEYVT KVFALDVAARHRVQFAMPESD AVAMLKHYPEINALALYLKCG TEWIC
13244	43612	A	13324	1	1812	
13245	43613	B	13325	1	1776	
13246	43614	A	13326	583	751	
13247	43615	B	13327	826	2097	
13248	43616	A	13328	1810	4163	
13249	43617	A	13329	686	2939	
13250	43618	A	13330	1085	1690	SYFIMVKVGTSYVPINVSFSPKV GPGASRYQQGHQDLFILRSDLP SQVFIRDKLMERRNRRTGRNIYK ARIWEVTDRTVR\TWICRGG PAAAADGVTFSDPGPPHTFRH SYAMHMLYAR*YR*KFLQSLM GHKSHPINGKATPKVFGPGMG LARA/HRGAGWQWPKSDAVG\ MPKQLSLRINALGLYMETGKPE GIMLFFGC
13251	43619	A	13331	3	327	
13252	43620	A	13332	3	337	
13253	43621	C	13333	167	413	
13254	43622	A	13334	1	1256	
13255	43623	A	13335	1	1078	
13256	43624	A	13336	3	976	
13257	43625	A	13337	1	1004	
13258	43626	A	13338	2	291	WRKIYEANGKKRKQRLQS*SL MKQTLNQQRSKETKKASA/SM RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMAIPPK
13259	43627	A	13339	1	2022	
13260	43628	A	13340	1	2262	
13261	43629	A	13341	5	283	
13262	43630	A	13342	1	1245	
13263	43631	A	13343	1	1203	
13264	43632	A	13344	1	687	
13265	43633	B	13345	1	1371	
13266	43634	A	13346	1	2241	

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13267	43635	A	13347	1	832	LKKCIKTPEIPSKHVRNWVPKV LEQRRQGLETYLQVASITLIPKA DEDTPKKKKTTDKNSWTGTDK VFNKILEIKFSSILKRLYWPVLE VLARAMRQEKEIKGIQLGKEEV KLSRFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQ\TESQIRIKYLGIQ LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKRYPFCQLCHQSAISTTKG VFTSILPLLMIQLVSGRSCPSV AWSSMECTTV
13268	43636	A	13348	1	1314	
13269	43637	A	13349	1	843	
13270	43638	B	13350	1	1011	
13271	43639	A	13351	1	173	
13272	43640	A	13352	1	323	
13273	43641	A	13353	3	2020	
13274	43642	A	13354	1	1473	
13275	43643	B	13355	1	636	
13276	43644	B	13356	1	456	
13277	43645	A	13357	1	619	
13278	43646	A	13358	1	1293	
13279	43647	B	13359	79	1041	
13280	43648	A	13360	3	718	
13281	43649	A	13361	1	612	
13282	43650	A	13362	1	992	
13283	43651	A	13363	1	1236	
13284	43652	A	13364	1	1071	
13285	43653	A	13365	359	1250	KLPMGVAVVKLLHLPKVIIVFW LASWMMSRWLHYPDWVTIIAQ QVLMNVVSVMQADCRMNLLEI FLRWLMRKIFHVRLLPAVSTPP NCLNQLLFFLTPVNYLPGQVM HFKKPLQIKRNYLSSRHLTFMS RKKLGKVSG\YKIHVQKS\QAFL SANSQGTESQIMSELPFTMASK RIKYLGIQLTRDVKDLFKEKYK SLLNEIKEDTNKWKNNPCSWV GRINIMKMAILPKVIYRFNAIPI KLPMTFFTELEKTTFKFIWNQK RAHIAKSNLSQKNKAGGITLPD FKLYYKATVTKTT
13286	43654	A	13366	1196	2132	
13287	43655	A	13367	1	2271	
13288	43656	A	13368	2	1105	
13289	43657	A	13369	1	2117	
13290	43658	A	13370	1	1447	
13291	43659	A	13371	1	1669	
13292	43660	A	13372	1	2823	

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13293	43661	A	13373	1089	2539	
13294	43662	A	13374	1	1787	
13295	43663	A	13375	1205	1207	
13296	43664	B	13376	1	2745	
13297	43665	A	13377	1	2063	
13298	43666	A	13378	1	4380	
13299	43667	A	13379	1	3347	MGDFNIPLSTLDRSTRQKVNKD TQELNSALHQADLIDSYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNCSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDDTYHNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEKETQTLQKINESR SWVFERINKIDRPLARLTKKKS EKNQIDAINDK
13300	43668	A	13380	1	2367	
13301	43669	A	13381	1	1116	
13302	43670	A	13382	1	1095	
13303	43671	A	13383	670	1500	QTESSTSKSLSTMIKWASSLG WQGFNIRKSINVQHIKGIQR QKPHDYLNRCKSL*QNSTTLH AKNSQ*IAQNLLKLISNFKVS GYKINVQKSQAFLYTSNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFTELEK TTLKFIWNQKRAHIAKSILSQK NKAGGITLPDFKLYYKATVTKT AWYWYQNM CYRSMEQNRALS YYVAYLQPSDL
13304	43672	A	13384	441	3131	
13305	43673	B	13385	1	5688	
13306	43674	B	13386	916	2165	
13307	43675	A	13387	1	1529	MDPPAGAARRLLCPALL*LPAG *PLRPRLAGAAPAGTALLHER AMPL*LRPGLHDVHGV PDL
13308	43676	A	13388	1	714	
13309	43677	A	13389	3	457	
13310	43678	A	13390	2	492	
13311	43679	A	13391	3	1201	
13312	43680	A	13392	1	309	
13313	43681	A	13393	2	1073	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13314	43682	A	13394	3119	6984	CIVKHAAMRSAMTSLAARITVL NPTRATTPNT/RVADDQGFLRQ WSKVAKERKLQRLYIGEPSAEA VAAQMPDLILISATGGDSALAL YDQLSTIAPTLIINYDDKSWHPR LSFNKADEITTVFCGSKKSLAN GIPMANILFPTSVIATQQTQHFR FVDDFNAQFLRFASLDPAASPA ITISGKATLEIPGTELVFYAAL KKLNIKPGQTTFDGRFTLLPTC CLGNCDKGPNMMIDEDTHAHL TPEAIPPELLER
13315	43683	A	13395	3	587	
13316	43684	A	13396	1	315	
13317	43685	A	13397	430	636	
13318	43686	A	13398	1	84	
13319	43687	A	13399	1	1647	
13320	43688	A	13400	1	2652	
13321	43689	B	13401	1	1494	
13322	43690	A	13402	1	750	
13323	43691	A	13403	1	513	
13324	43692	A	13404	1	2254	
13325	43693	A	13405	1	746	
13326	43694	A	13406	3	428	LGDDFVRAANIILHCEGKVVVS GIGKSGHIGKKIAATLASTGTPA FFVHPAEALHGDLMIESRDV MLFISYSGGAKELDLIIPRLEDK SIAL/GKPTSPLGLAAKAVLDIS VEREACPMHLAPTSSTVNTLM MGDALAMAV
13327	43695	A	13407	1	1431	
13328	43696	A	13408	943	2481	
13329	43697	B	13409	1	783	
13330	43698	A	13410	3	729	
13331	43699	A	13411	1	843	
13332	43700	A	13412	3	128	
13333	43701	A	13413	1	136	
13334	43702	A	13414	1	492	
13335	43703	A	13415	3	619	

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13336	43704	A	13416	1	1600	GQACHASSSPLKSGRGSPPNFEI LYGPIFEDSLAPD*PKVIAGQIT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRGLHLPEKHVTW RGEAIPGSLDFALYFFHNYQA LLAKGSGPYFYLPKTQSWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDEILHALR DHIVGLNCGRWYIFSYIKTLK NYPDRVLPDRQAVTMDKPFLN AYSRLLIKTKHKGAFAMGGM AAFIPSKDEEHNNQVLNKVKA DKSLEANNHGDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKGSQNLWKFA VYSGLRHGEAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVEIYGMWID DMSDEQIAMLNARVM
13337	43705	A	13417	2	278	
13338	43706	A	13418	3	662	GHLWIRIDLSQSAVSHSVKELE NHTGVRLLDRTTREVVLTDAG QQALRLRLLLDELNSTLRDTG RMGQQLSGKVRVAASQTISAH LIPQCIAESHRRYPDIQFVLHDR PQQWVMESIRQGDVDFGVIDP GPVGDLQCEAILSEPFFLLCHRD SALAVEDYVPALPLPEGSPLVV KRITPVVERQLMLVRRKNRSL TAAEALWDVVRDQGNALMAA
13339	43707	A	13419	1	646	GQQLSGK\VRVAASQTISAHLIP QCIAESHRRYPDIQFVLHDRPQ QWVMESIRQGDVDFGVIDPGP VGDLQCEAILSEPFFLLCHRD LAGGDYVPWQALQGAKLVLQ DYASGSRPLIDAALARNGIQAN IVQEIGHPATLFPMAAGIGISIL PALALPLPEGSPLVVKRITPVVE RQLMLVRRKNRSLSTAAEALW DVVRDQGNALMA\GRE
13340	43708	A	13420	1	1068	
13341	43709	A	13421	1	381	
13342	43710	A	13422	3	938	

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13343	43711	A	13423	595	1630	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGHYDHDYEFELGTR FRAVIKLCNGDSLRFMTSVY ALVKCFHEGDPLHKTGCQHLIP KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVEMLLREAGKAGFC RFRNHHQTGFSPAGANQRGPL AATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGNSYDHDYEFELGTHQ RLGAVARIVGDDLLNELRRDV VDARAGDVDQHAHAKEGDFR
13344	43712	A	13424	1	1395	

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13345	43713	A	13425	1307	1992	DKLNPVAHQKAYLAQSSQCHP QNARLVQHTQIRILPISEPPSNRI FACWGKPAWTACCN/FSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGQDFADFGTTIKQDFRLLG QTSVDRLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLESGQD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADSL MQLARQVSRLESGQDFADFGT TIKQDFRLLGQTSVDRLQLSQ GQAVKGNQLLPVSLVKRKTTL APNTQTASPRALADSLMQLAR QVSRLESGQLKHKEVESPNRPI TSSEIQVLIKSLPIKKSPGPDGFT AEFYERYKEELVPFLLKLFQTIE QERLLPNSFYEASILTSPSRD ATKDNFRPTSLMNIYAKILNK IGQTESSSTSKSLFSTIKSVSSPE CKAGSTYANQDFADFGTTIKQ DFRLLGQTSVDRLQLSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGQETTPWSPFSDPVLAFDY KVFMAFVYNVVRVSQRMVVA GCISAFNDKLLNDLICFPVAPVS SKQIFPSDVKVAEPDHSCVSSY RIGSMAPNLTSEMPRHNYFPA GNSVDHDNEFEL
13346	43714	A	13426	560	844	
13347	43715	B	13427	200	1519	
13348	43716	A	13428	950	1230	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGQ

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13349	43717	A	13429	695	1060	FRQRSVAFPPPTVPNACVSVRSR ERDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQ*AQR N*CRKHRLSIPRK
13350	43718	A	13430	1	1558	MRDIFWVPDICKVMLYL VFFRS MGTPLRVAVMGLVITSWKIAQ KPRDFADFGTTINQDFRLLGQT SVDRLQLSQGQAVKGNQLLP VSLKTDTKAKNLYLTKAYYGG GTNFFRKESQKLQSSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTGFADFGTTIKQDFRL LGQTSVDRLQLSQGQAVKGN QLLPVSLVKRKTTLAPNTQTAS PRALADSLMLARQVSRLESG Q*AQRN
13351	43719	A	13431	391	1676	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQ*AQR N
13352	43720	B	13432	1	1638	
13353	43721	A	13433	1	2430	
13354	43722	B	13434	1	1282	
13355	43723	B	13435	1	1225	
13356	43724	A	13436	350	709	
13357	43725	A	13437	1	2236	
13358	43726	A	13438	548	1698	RSWLRSSLSGSIPIATEISCTSC ASTSS/VRDFPGVKDLTFQWHD RLIFAIARLLGRSACGVTFHKEQ LGTVKVLRGTISQFARQRRAG QLFTHHFFGRTHALGAGNRH LRQQFSRLNVLVQPQDKGIFHH ARNECRALTRRETPAFFRIRAVF NSQLSQTQLHIFFTARPAGLAS KCRKPPQACYLWDFADFGTTIK QDFRLLGQTSVDRLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMLARQV SRLESGQNIESAKGLHVWDSW PLHNADGTVDYNGYHVVFAL AGSPKDADDTSIYMFYQKVG NSIDSWKNAGR VFKDSDKFDA NDPILKDQTQEWSGSATFTSDG KIRLFYTDYSGEHYG
13359	43727	B	13439	448	1116	
13360	43728	A	13440	97	1636	
13361	43729	A	13441	1	1296	
13362	43730	B	13442	1	2160	

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13363	43731	A	13443	485	865	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQS*NSS KTKNTKCLNSINQRLKILSLQK DLMCGTAGRCKTLTEQ
13364	43732	A	13444	816	1194	SLILFLRRRRAVEKRGKVKWDS CPNGTTTLTSGAIFLIRDFADF GTPITQDFRLLGQTSVDRLLHLS QGQAVKGNQLLPVSLVKRKTTL LAPNTQTASPRALADSLMLA RQVSRLESGQ*AQRN
13365	43733	B	13445	1	2710	
13366	43734	A	13446	2027	2934	NPRILPISEPPSNRIFACWGKPA WTACCN/FSQGQAVKGNQLLP VSLVKRKTTLAPNTQTASPRAL ADSLMLARQVSRLESGQDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLVKR KTTLAPNTQTASPRALADSLMQ LARQVSRLESGQSRVHSHSLGP LPTTTTGSINQKKGGVSGGPG SKEQAEISCLKERKDLGLGILGS TVGILKVKHQGASTKQGHSD LIKILLSDTSLSTPAAPMVDSLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQYMNLLPIFLRWLMR KIFHDEHGV PQDQEEPISETII EEEIPSINSDLGNELYFVKLPKF LSIEPKDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMLARQVSRLESGQP HSTDSATHRKMTLSLADRCST QKIRILPMAGRDPECQRTMIK SSDLMAEIIQEHKEDQLPELEQL EHIGLFSHAEIKAIKKASDLQY RIQERALFKDDFINYVLHEIPLF EQIQRRTIGYSLKHGIRAVKA TIVRALYGRIKPAGVVVTRSV
13367	43735	A	13447	1	5240	
13368	43736	A	13448	4733	4753	

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13369	43737	A	13449	299	761	LNTTAITLCLLLREARKTLMTH QSTCFIKRDFADFGTTIKQDFRL LGQTSVDRLLQLSQGQAVKGN QLLPVSLVKRKTTLAPNTQTAS PRALADSLMQLARQVSRLESG Q*AQRN**PVPKEKRRRGDRQE HQQPCRNTEGTALRVWAARDQ
13370	43738	A	13450	3925	4190	FIRDFADFGTTIKQDFRLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESGQ*AQR N
13371	43739	A	13451	2	1040	
13372	43740	A	13452	58	350	HLASWVVALVLHWGCVWVTA ESSTSKTRSPFRARSWIGEAVA AAAADGVTFSVPVTPHTFRHSY AMHMLYAGIPLKVL\QSLMGH KSISSTGVPSSNS
13373	43741	A	13453	1	1290	
13374	43742	A	13454	289	1338	
13375	43743	A	13455	1	732	
13376	43744	A	13456	982	1347	
13377	43745	A	13457	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSVP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS CIVSLKIDWIERYQLPQSYQLY YFELAIPVGYFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADVLIPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEVDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWGIGTINVVCAADVLI PTPAELFDYTSALQFFDMLRDL LKNVDLKGFEVDVRIILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
13378	43746	A	13458	1	780	

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13379	43747	A	13459	116	396	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEVTYTKVF ALDVAARHR
13380	43748	A	13460	3	514	
13381	43749	A	13461	2	545	
13382	43750	A	13462	1	1110	
13383	43751	A	13463	1	870	
13384	43752	A	13464	1	1422	
13385	43753	A	13465	1	1599	
13386	43754	A	13466	614	1236	TARVAAARRRCQCWGSAGCS ALTLPRTSSLTLTETPIVQTRM VVRCPASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVTDRTVRTWIGEAVAAAAAD GVTFSPVTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13387	43755	A	13467	1	1023	
13388	43756	A	13468	1	699	
13389	43757	B	13469	1	1281	
13390	43758	B	13470	77	751	
13391	43759	A	13471	1	705	
13392	43760	A	13472	2	893	
13393	43761	A	13473	206	837	CAGAGGIARRRAEKEKALSAV NLDPTSRRLSSTSLPGAPPNPRV AAAGLSRRRPTPESAGRKS/GR WPRASRYQQGHQDLFILRSDLP SQVFIRDKLMERRNRRTGRTEK ARIWEVTDRTVRTWIGEAVAA AAADGVTFSPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEVTYTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
13394	43762	A	13474	1	1416	
13395	43763	A	13475	1	765	
13396	43764	B	13476	1	519	
13397	43765	A	13477	1	2784	
13398	43766	A	13478	1	624	
13399	43767	A	13479	2089	2454	

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13400	43768	A	13480	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSLEAACHDSDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRRLHR PQQSPPLGIPHPSSL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13401	43769	A	13481	2	2309	
13402	43770	A	13482	1	603	
13403	43771	A	13483	1	762	MVPHSTGKSWNGCDPTSATLD QLVTVFFMKLFSIGDARIPCLGP RSHSYRRSDYYSGTTIHSCCRA DYWSGTTAHL YCRSDYHPVPS FILVTSTTNHQPLKPSISEASWN PLFASL/HHLQLITES/W/YMSLA TTVFIRDKLMERRNRRTGRTEK ARIWEVTDRTVRTWIGEAVAA AAADGVTFSVPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEYTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
13404	43772	A	13484	1	762	
13405	43773	A	13485	1	615	
13406	43774	A	13486	887	1203	RPEKAR/IWGVTDRTVRTWIGR AVAAAAADGVTFSVPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVA ARHRVQFAMPESDAVAMLKQLS
13407	43775	A	13487	1	855	
13408	43776	A	13488	1	927	
13409	43777	A	13489	1	921	
13410	43778	A	13490	1	3216	
13411	43779	A	13491	1	1974	
13412	43780	A	13492	1	1221	
13413	43781	B	13493	1	2337	
13414	43782	A	13494	1	1273	
13415	43783	A	13495	1	1251	
13416	43784	A	13496	1999	3237	
13417	43785	A	13497	1	1773	

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13418	43786	A	13498	1	633	AQALIATYGRDRDPGRPLWLG SVKSNIGHTQAAAGVAGVIKM VMAMRHGQLPRTLHVESPSPE VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSVPVTPHTFRFSYAMH MLYAGIPL*VLQSLMGHKSIS TEVYTKVFALDVAARHRVQFA MPESDAGGPGTCACSQQGCRL RGSSVSPGRQHPQPHVRV
13419	43787	A	13499	101	1943	
13420	43788	A	13500	686	3925	
13421	43789	A	13501	1	2084	
13422	43790	A	13502	734	834	
13423	43791	A	13503	1	1075	
13424	43792	A	13504	1	357	
13425	43793	A	13505	795	1273	SHPFFSTDWSTDGTGRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRKIFHVRLLPAV STPPNCLNQLLLFFLTPVNYLPG QVMHFKKPLQIKRNYLSSRHLT FMSRKKLG
13426	43794	A	13506	344	449	SHPFFSTDWSTDGTGRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMRWLHYPDWVTI IAQQVLTPRKDVMSQADCRMNL LEIFLRWLMRKIFHGFGM
13427	43795	A	13507	1197	1511	WHYREPLLLRAQLTNPPSQGLV SITKYLQPVVEY*AYVLE*QAHL HYQLKSVDQWPVQKQFSSGSD LYQLHPFHVQHFLEPCFPRHPE FAPPSTGTESHYYCCIW
13428	43796	B	13508	1	1494	
13429	43797	A	13509	1	554	MTARKARKITRRWRIGEAADL VGVSSQAIRDAEKAGRLPHPD MEIRGRVEQVRGYTIEQINHMR DVFGTRLRRAEDVFPVIGVAA HKGNDPQGTASMYHGWPDL HHHAEDTLLPFYLGEKDDVTYA IKPTCWPGLDIIPSCALHRIETE LMGKFDEAQP NLGIGT/N*CRM CC*CADCSHAC
13430	43798	A	13510	1771	2068	DTYSVSWIGEAVAAAAADGVT FSVPVTPHTFRHSYAMHMLYA GIPLKVLQSQYPIFKLSYKNPVT QTAWFWFPNRIFGVPINVSFS PKVGPGLPGII
13431	43799	A	13511	65	277	

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13432	43800	A	13512	327	748	VHQFHGSLHEGFCAGCGCPAP GTVCDAGGFCRFRNHHQTGFSP AGANQRGPLAATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AKSIWCHRNCRW/RVAVVKLL HLPKVIIVFWLAS
13433	43801	A	13513	512	580	
13434	43802	A	13514	2096	2272	EWRNVCGVTGTENTVTPSAAAA QPPQSRPFSWILRPF*RP*RKIS TSFIRPLFTFLPA
13435	43803	A	13515	402	2784	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQSD F*RRRKNISERSAAYR*RQLYIR RQPYAERPS\HVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGIIELNNDYTLK KVMKPLITSNTVTDEIERANVF KMNGKWYLF TDSRGSKMTIDG INSNDIYMLGYVSNLTGPYKP LNKTGLVLQMGLDPNDVTFTY SHFAVPQAKGNNVVITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQGQLTWLQVA KRAGLGGGQSGRTVLRERLPN YKNFKGTIQELGQNQYAVSGEI FVVDNRNTVEITELPVRTWTQVY KEQVLEPMLNGTDKTPALISDY KEYHTDTTVKFVVKMTEEKLA QAEAAGLHKVFKLQTTLT CNS MVLFDHMGCLKKYETVQDILK EFFDLRLSYGRLKEWLVGML GAESTKLNNQARFILEKIQGKIT IENRSKKDLIQMLVQRGYESDP VKA WKEAQEKCDNLKTCHTSH GSVMAETA VINHKKRKNSPRIV QSN DLTEAAYSLSRDQKRMLY LFVDQIRKSDGTLQEH DGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVV FYRPEEDAGDE KGYESFPWFIKRAHSPSRGLYS VHINPYLIPFFIGLQNRFTQFRLS
13436	43804	A	13516	2	199	WRKKSLDIPPLIIPNGIVKNILRH FSQLLNPITRPFSWILRPF*RP* RKISTSFIRPLFTFLPA
13437	43805	A	13517	1	1887	

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13438	43806	A	13518	125	828	ECRKHTKLKLQPTIWHVLKI/Y NSEKLLVYRKLLQVLTGLYKRS NLGVRLYACCGLLCPAYPQH FAHGYVDKIPGYPRAGTLTGL HPMQCDNLKTCHTSHGSMVAE TAVINHKKRKNSPRIVQSNDLT EAAYSLSRDQKRMLYLFDVQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEAILRYFIKHSADMEA ITNGMMNLNRQRHQHLVALRII FAHGENGGEEVVHGHV
13439	43807	A	13519	504	755	EPCFPAHPEFAPLSTGAESHHY CCIW*AKYVHQARTL*DQRS*A DHEAYRKTAVRRCSQTTQQA EQLVHQQHILPSSCRYPG
13440	43808	B	13520	1	1980	
13441	43809	A	13521	923	1063	
13442	43810	B	13522	1	1932	
13443	43811	A	13523	383	1383	RKVFFIALKRMPAMKKAMNLF LGLSNVRTVHPEGFTVYISTHIS FPSLSGYKTRLRSFGLVKQKKS PILLEVLAREIRQE/KEIKGIQFG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKLSRM HGRPHQPPNAASTLPFPKRSSH YGQKSERLSRSGDNRKSHPECR HWQSCAKKSRCLAFTRTVRHT PR SAYLLTRTIELLESSALWHV QTQRIYAPLYETLDPGNRTHCE
13444	43812	B	13524	107	1000	
13445	43813	A	13525	1778	1897	
13446	43814	A	13526	273	421	SHPPFFSTDWSTDTGVRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFSSAS
13447	43815	A	13527	273	697	SHPPFFSTDWSTDTGVRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRIIFHVRLLPAVS TPTNCLNQLLLFFLTPVNYLPG QSGTTVPLVSSV

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13448	43816	A	13528	273	688	SHPPFFSTDWSTDTGVRKSIWC HRNCRW/RVAVVKLLHLPKVI VFWLASWMMSRWLHYPDWVT IIAQQVLMNVGSVMPADCRMN LLEIFLRWLMRKIFTTGLRSFGL VKQKKSPIRMPCVYTNPVSIV SRMGQASSL
13449	43817	B	13529	1	1053	
13450	43818	B	13530	1	1869	
13451	43819	A	13531	120	430	EDLSDTGVRKSIWCHRNCRW/ RVAVVKLLHLPKVIIVFWLASW MMSRWLHYPDWVTIIAQQVL MNVVSVMQADCRMNLLEIFLR WLMRKIFHSSLEDPRNWHL
13452	43820	B	13532	148	334	
13453	43821	A	13533	2	147	TSMDKGLQGALKKKI*DL*KK* L\KNIPVDKWITPREVFSGIVCK QNI
13454	43822	A	13534	151	325	KAICHNTFSKPSMDKGL/LRRS KKEGFKTYKKNIYKNIPVDKWI TPREVFSGIVCKQNI
13455	43823	A	13535	283	406	HRTKISIVPEGIFKSFSLPLAGIM TEQYFL*TLHRLRLIM
13456	43824	B	13536	1	1902	
13457	43825	A	13537	508	1041	LWREASKDIRQALKSFAGKEV VFYRPEEDAGDEKGYESFPW/C YQT\WHSPSRGLYSVHINPYLIP FFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIDWIIERYQLPQSYQRMPDF RRRFLQVCVNEINSRTPMRLSYI EKKKGRQTTHIVFSFRDITSMTT
13458	43826	A	13538	1	1422	
13459	43827	B	13539	1	1002	

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13460	43828	A	13540	1	160	MVLIVAATVVVVVVVGLCWM AKSECRSAMLSSLQVRIFTYLI GREAAFADNLKWMACANKES ALLDRFIFLILLCKEPWECHCL PLFKVAMPSKCDIPVICAHINIG FTLRQLRGFGPCNIGSFEAKDS KNPQVRVISQKHKALRCIWFIT CSICNPEFTEGALQGNKQRKRQ CLQWFRAKALESNEPGFEFIQD KLLTQSLCFFPYTFLWLTGPHPS GSSYTDPCSSKADVTPSSTAVQ EHSSALELKTKIVSPITRQQHGF FTQISTLADVQENVMEYLHVLS RPKVIDQEHDVVWTEAYIDSTV CRVKRRQLLLQQVPLTRKQQF LPAPYVDLDSARTRTNKQQQN PIIYTGSKQGSHVILFHYGESWN LLRADQRLIFAKSWPRASRYQQ GHQDLFILRSDLPSQVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRVQFAMPESDA VAMLKQL*QPQWWWSW*D CAGWRKVNAAQPCVCLPFRFA SSHTSLDERLRLQTI
13461	43829	A	13541	48	668	
13462	43830	A	13542	1	1278	
13463	43831	A	13543	100	157	
13464	43832	A	13544	1	1122	
13465	43833	B	13545	1	1131	
13466	43834	A	13546	273	812	SHPFFSTDWSTDTGVRKSIWC HRNCRWESPS*SC/WHLPKVIIV FWLASWMMRWLNYPDWVTII AQQVLMNVVSVMQADC\KRIC WKYFCAG*CGKIFTYQ**TWN NTETSMSQKPCMKRI/YSREE LAV*KMDHHSDLISLW*KLEPL TCRSTSHFRQKLAQGFVSTGT PGFIYSAK
13467	43835	B	13547	1	987	

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13468	43836	A	13548	246	2065	LVGWLDGWLDGWLIVALPFM MIPWHSSIQPFTIHPFNWNFG*M PELCPQI\GMDSWLAGWM/CWL DGWLDGW*MAKLRKPVL*PD KEGNEIWVDMYTVKPSGWTVR TFDKPRKRFI AFFIAGILFRAIKN HFLPRETLQCLPYILTGFRRGQS EYFSIFSNMDLADTVMFLIVAL PFMMIPWHSSIQPFTIHPFNWNF G
13469	43837	A	13549	2	118	
13470	43838	A	13550	397	729	THGIRIGDFFCFTKRKLKRPVL* PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFI AFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNMDLADTVMFL
13471	43839	A	13551	147	417	SSSWGRSSPQLVCGIFQTAGPQS LCKWNQ*VLAQTNKKTAGTSA DLYVPV*QL*RKAVVLPTNAP WRFWRTRQEWFSRGRSGYQS QET
13472	43840	A	13552	1	2418	
13473	43841	B	13553	1	1848	
13474	43842	A	13554	188	490	EWRNVCGVTGTGTEKVTPSAAAA ATASPIQVLTVLSVTSQIRAFSV LPVRRLLRRSMSLSRINTCVNRF CNPIKKGMRYGICPL*SLLDGL CARLINQGKDS
13475	43843	A	13555	83	440	SLLFKCSGVIVLRRPLGYRQVM NVTRRCLLRTHWMISSLLFY*L VNRHRRSVEEYLVSYTLPMGV AVVKLLHLPKNFVSLITPRGRL EKERAFLFQHMR SISTGLKIFV MHTSCPMVVC

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13476	43844	A	13556	1337	2583	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNIERSAVYR*R QLYIRRQPYAERPSHVDEKGH KYLVEANTGTENGYYGGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHSISSTEYVTK VFALDVAARHRIRKSDGTLQEH DGICEIHVAKYAEIFGLTSAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAHSPS RGLYSVHINPYLIPFFIGLQNR TQFRLSETKEITNPYAMRVTNP CVSIVCVNEINSRTPMRLSYIEK KKGRQTHIVFSFRDITSMTTG
13477	43845	B	13557	1	696	
13478	43846	A	13558	326	1577	SGLLPKVAFTKPQFLFILLRIW* AKYVHQARTL*DQR*ADHEA YRKTAVRRCSTTQQAWEQSA HQQHIRH
13479	43847	B	13559	1	3822	
13480	43848	A	13560	848	1476	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNSMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
13481	43849	A	13561	1	2196	
13482	43850	A	13562	326	3746	SGLLPKVAFTKPQFLFILLRIW* AKYVHQARTL*DQRS*ADHEA YRKTAVRRCSTTQQAWEQSA HQQHIRH*SCRYPS*ARCQ*LTG QIVHRGEKKEQQLI
13483	43851	A	13563	3802	4075	IRCFTYSPAPGYFPRFRAVIIKLC NGDSLRFHMTSVYALQEAAAE VRHTLVTLRQLVTLYDPVDFQ RDDA*AIRAYDTDGIRINAWH TDW
13484	43852	A	13564	1708	3198	
13485	43853	A	13565	1	1401	
13486	43854	A	13566	1214	1357	NKINMFIAALFTIAKT\WNQPK\ CPTMIDWIKKRGSSRVASSSPT RTR

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13487	43855	A	13567	3363	3852	SHPFFSTDWSSDTGVRKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRKIFHVRLLPV STPPNCLNQLLFFLTPVNYLPG QGFAGFRNPPSNRIFACWGKPA WTACCNSLRARR
13488	43856	B	13568	350	742	
13489	43857	A	13569	248	599	HRDSYKRMAYGLVISVVSLSR KLRKPVL*PDKEGNEIWVDMY TVKPSGWTVRTFDKPRKRFAF FIAGILFRAIKNHFLPRETLQCLP YILTGFRRGQSEYFSIFSNMDLA DTVMFL
13490	43858	B	13570	1	2148	
13491	43859	A	13571	3064	5069	RSDPDENCC*TGH*STLFNWC\ WRNALSIWEPVCNEIFYRLIKPR WEIRWGKRAPVIPKHTLNTQPV EDTSLSTPAAPMVDSLIRVGV MARGNAITLPCGRDVKFTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDLIPSFLTGGQTP AFGRRVSGVIEIADGSRRRKAA ALTESDYRVLVGELDDEQMAA LSRLGNDYRPTSAYERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPRQ APCMKSNNALIVILGTVTLDV GIGLVMPDLALKGLRVLLVEG NDPQGTASMYHGWVDPDLHIHA EDTLLPFYLGEKDDVTYA IKPT CWPGLDIIPSCALHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVIDSAPNLGIGTINV CAAHALIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEVDV RILLTKYSNSNGSQSPWIEEQIS DAWGSMVLKNVHAIVTGDAV GMDDIPQEARQYRHNQAYAYS IQGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLGNQ RNGGV LIEDKFECFFSLTAVFA TRAYYAVYHLTGARHSDIVVA HGYAGCNVRFVALLGTNTTLE TYLSNQSGNGFSCLHFGEDVGQ

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13492	43860	A	13572	1408	5578	CSHLLIIQLANQNTIITFGKCSSF TTATPIGNFYDTRYSSSTERRCLL TSQ*KRRDEIIQCVLISKQLRAR SLPDPTRKVFSTLSRSTFRVNF TSRPHTGK V WAFREPFLPPHL RKPDTDTGYLYKRMAYGSVIS/ ICFTKPKLRKPVL*PDKEGNEIW VDMYTVKPSGWTVRTFDKPRK RFIAFFIAGILFRAIKNHFLPRET LQCLPYILTGFRRGQSEYFSIFS NMDLADTMVFL
13493	43861	A	13573	2678	2884	SAPLQRNTARRFLFLKACSNR FCYR\WRHMTAIPSYNRSKLREI KGGLYHMGIFRRFLASKETPTF CY
13494	43862	B	13574	1	7903	
13495	43863	A	13575	1	880	
13496	43864	A	13576	1	996	
13497	43865	A	13577	763	778	NRCEPPV*GTRFSQQLLLALKA TLLIEELYALTVHSWRPKW
13498	43866	A	13578	2	254	
13499	43867	A	13579	1	2358	
13500	43868	A	13580	206	382	
13501	43869	C	13581	1	1137	
13502	43870	A	13582	79	906	
13503	43871	A	13583	2	383	SPPEVVRLGYHPPRHGHQHLF ASCRKGDVGRVPR*TRDPGSD LLPAQVPAGAARRGGTTPACV GTRSWYSTFWPMEPAARPTPS MVSAASMGH*VTPSAGLYAITS RSRLPAGGGITMTTSCSGF
13504	43872	A	13584	1	1092	
13505	43873	A	13585	173	262	
13506	43874	A	13586	898	1391	QLGILRVNLLGIDLRVTGHQAA PPLHLLDLLQMH/SSPPCRPQ*A TSSPPPSLRRCRAPHR*SLAAP*A PPPRPSLSAGSPHRKGPPGPAPT GSWSSGNQAGLPCCLGWASVF LCPSHLPPPHLPQSSASLAFHRV KHLIHLHNSVIDKMKYQLKFLC LLGEYLSV
13507	43875	A	13587	1	960	
13508	43876	A	13588	1318	1369	RDFHPK*HTIGIQYIWQQLEINQ CDTSLSMVLP\R*RDHFPKSHLL PGAAQIQ
13509	43877	A	13589	212	385	
13510	43878	A	13590	377	505	
13511	43879	A	13591	69	193	CSLRSLAQMLPFYPRRSLCLSCS L**PHCCLWLAALRSESK
13512	43880	A	13592	1	230	
13513	43881	A	13593	2	341	

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13514	43882	A	13594	1	2421	
13515	43883	A	13595	1	623	
13516	43884	A	13596	1	906	
13517	43885	A	13597	1	568	
13518	43886	A	13598	107	199	
13519	43887	A	13599	42	328	GGASGVCSF*CSE/LSSFWWVR GLAGSGVKLQTFATQEPSWLH PVDVPVGLQVELPASPAPCART PQPLGGRWDSAPWSRGRRSSG AHGIDVALLP
13520	43888	A	13600	5	124	IWILWFFVSLT*RSRGPSSQ*VLQ LIKAPHVDLLVVTFCG
13521	43889	A	13601	827	973	IHQSAICI*LKFYTSLSLTHPVISLV VETLVVW*YLKM*KKLWSWI RGRG
13522	43890	A	13602	2	503	
13523	43891	A	13603	56	792	
13524	43892	A	13604	1	411	
13525	43893	A	13605	1	1554	
13526	43894	A	13606	1	363	
13527	43895	A	13607	1	966	
13528	43896	A	13608	932	1189	
13529	43897	A	13609	146	323	
13530	43898	A	13610	1	1827	
13531	43899	A	13611	2	412	
13532	43900	A	13612	1	2238	
13533	43901	A	13613	2	411	GATDCVCYYTVGFNDTKTSAL HMOVGDSDLAMDVSSVHHNSTL LRYSVTLGFGFYGDIIKDSKD KRRLGLARYDFLCIKTFSSH* YEGTVTFLPAQHTVGSPDRKP CRAGCFVCRQSKQQLLEEQT ALYGLEL
13534	43902	A	13614	3	2185	
13535	43903	A	13615	206	1568	
13536	43904	A	13616	165	417	TWDYIRPNE*YM*MAKKKMP MD\VCNGKNWRPAGEFVDD G\TETHFSIGNHDCYIKAVSSGK RKEGIIHTLIVDNREIPEIAS
13537	43905	A	13617	463	837	
13538	43906	A	13618	1	765	
13539	43907	A	13619	3	510	AGVHKIEFEHGTTSKGRVVYV DGKEEIRKEWMFKLVGKETFY VGAATKATINIDAISGFAYEY TLEINGKSLKKYMEDRSKTTNT WVLHMDGENFRIVLEKDAMD VWCH\GKKIRRPAGEFVDDGTE TPLQYPGPMTICYIKAVSSGKR KEGIIHTLIVDNREIPEIAS
13540	43908	A	13620	342	585	
13541	43909	A	13621	1	1119	

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13542	43910	B	13622	48	1104	
13543	43911	A	13623	656	916	GWRKYLQGAADMGIAEGGGS VWSSWASSSLISVPVR*LCESTQ RSAPGWPPLTGGSCSESVALWL CVNDFEFQMRLMPSRDSEPAC
13544	43912	A	13624	179	682	
13545	43913	A	13625	1	7511	
13546	43914	A	13626	56	8669	
13547	43915	A	13627	42	8716	
13548	43916	A	13628	1	2457	
13549	43917	A	13629	3	571	
13550	43918	A	13630	1	867	
13551	43919	A	13631	1	2238	
13552	43920	A	13632	171	396	
13553	43921	A	13633	1	3940	
13554	43922	A	13634	554	619	
13555	43923	A	13635	1	1359	
13556	43924	C	13636	208	359	
13557	43925	A	13637	2	513	PSHDHSLGTRASGKVILHGEH AAVHGKVALAVSLNLRFTLRL QPHSNGKGDLSLPNIGIKRAWDL VARLQSLDTSFL/RWTKEDLELI NKWAFQGERMIHGNPSGVDNA VSTWGGALRYHQGKISSLKRSP ALQILLSTRGVPNRALVGGG RNRL\LEVPDMGGPLLSW
13558	43926	A	13638	3	1331	RVDDFVGELLRLRRGGAADVE AAAAAGFPGAMLSQVLLVSAP GKVILHGEHAVVHGKVALAVS LNLRTFLRLQPHSNGKVDLNL NIGIMRAWDVARLHSLDTSFLG ECKEEKPEQGDVTTPTSEQVEK LKEVAGLPDDCAVTERLAVLA FLYLYLSICRKQRALPSL\DIVV WSELPPGAG\LGSSAAYSVCLA AALLTVCEEIPNPLKDGD\CVN R\WTKED\LELINK\WAF\QGER MIHGNP\SGV\DNAVQHLGEGA LRLPSRGRFSFL*RGSPVFQI/LG LTNTKVPSAITRALVAGVRNRL LKFPEIVAPLLTSIDAISEECERV LGEMGEAPAEQYLVEELIDM NQHHLNALGVGHASLDQLCQV TRARGLHSLTGAGGGGCGITL LKPGLQPEVEATKQALTSCGF DCLETSGAPGVSIHSATSLDSR
13559	43927	A	13639	1	950	
13560	43928	A	13640	1	1653	
13561	43929	A	13641	1	2601	
13562	43930	A	13642	2	513	
13563	43931	A	13643	47	367	

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13564	43932	A	13644	1	633	
13565	43933	B	13645	1	1110	
13566	43934	A	13646	172	1095	
13567	43935	A	13647	1	855	
13568	43936	A	13648	3	440	
13569	43937	A	13649	2	230	
13570	43938	A	13650	2	606	AEFDLCCSPCRRRLLGREEAGE EPTSPVTQYLQPRSPEECKMFA CAKLA\CTP\SLIRAGSRVAYRPI SASVLSRPEASRTGEGSTVFNG A\QNGVSQ\LIPKGSFKTSAISKK TLDTA\AKFIG\AGAGNS*GVG WFLVAGIG\TVFWASLIHWVM ARKPFRWKQQL\FSY\AILGICL VLKAMGSPFVLMVAFLILFAHV TEITA
13571	43939	A	13651	200	2320	
13572	43940	A	13652	224	640	
13573	43941	A	13653	1	357	
13574	43942	A	13654	43	183	
13575	43943	A	13655	3	478	SSAGREPDPDDLPRRLCFTHRLP AARRWVQLCVHASPEPGGQGV CPGRSERMVIRVFIASSSGFVAI KKKQQDVVRFLANKIEFEEVD ITMSEQRQWMYKNVPPDKKP TQGNPLPPQIF\NGDRYCGDYD RLFESKESNTVFSFLGLKPRLAS KAEP
13576	43944	A	13656	2	428	CRDGKDVVSLVRATVWALSKR KLQPTRA/ALTPTPSAVNLIKQF LKDKPELVVDKVGVRTRGCNG LSYTVEYTKTKGNSDEVIQDEA RVFIEKKAQLTPLGTEMDYVED KLSSE/FMFNNPT*TCGCGAPGK LVETLGLTEEIM
13577	43945	A	13657	1	1377	
13578	43946	A	13658	1	1215	
13579	43947	A	13659	1	452	REAEAADLRSEAPGRRDGEDV GFLSSGQLSGLCSKRKLQPTRA ALTTPSAVNLIKQLLKE*P*AC R\LKVGVRTRGCNGLSYTLEYT KTKGDSDEEVIQDGVRFIEK\K AQLTLL*TEMDYVEDKLSKGV GVH\SPNIKGTCGCGESFNI
13580	43948	A	13660	3	763	
13581	43949	A	13661	1	306	
13582	43950	A	13662	738	1022	GQHHPETKAWQRHNKKREF*T NILDEH*CKNPH*NTGKPNPAT HQKAYPP*SSGLHPWDARLVQ HTKINKCNPAKYQNQRQKPHD YLNRCRKGL

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13583	43951	A	13663	2	516	QKIDLPEYQGEPDEISIQKCQEA VRQVQGPVLVEDTCLCFNALG GLPGPYIK\WFLEKLKPEGLHQ FLAGVEGKS\AYALCTFALSTG DPSQPVRLFRGRTSGRI\VAPRA CQDFGWD\PCFQPDGYEQTYAE MPKAEKNA\SHRFRA\LLEVLQ EYFGKFGQLDFCKLEAGPFR
13584	43952	A	13664	7	227	
13585	43953	A	13665	1	415	
13586	43954	A	13666	234	510	
13587	43955	A	13667	2	402	
13588	43956	B	13668	530	1544	
13589	43957	A	13669	1	603	
13590	43958	B	13670	1	1527	
13591	43959	A	13671	1	1179	
13592	43960	A	13672	2	413	
13593	43961	A	13673	100	374	KHISPALKALELPFERNLII/PLQ LLKVRILKEGEML/DI*HWFL** GMGTVQKGMPHKCYHGKTGR VYNVTQHAGVIVVNKQVK*VV
13594	43962	A	13674	1	1035	
13595	43963	A	13675	2	564	GPFGNRHLPVIRQNDGPQRGK RRGTPKYVF*/RPFRK\HGGGPL GPPYM\RI\YRKGDIVD\IKGMG\ TVQNGMPH\KCYHGKTGRVYN VTQHA\GIVVNK\QVKGKILA K\RINVRIEHI\KHSKSPR*ASLK/ RVLKENDQEKERSPKKKGTWG SNLKRHPAPPQKKHTL*RTNGK EPEL\LEPIPIYEFHGHN
13596	43964	B	13676	68	391	
13597	43965	A	13677	1	404	PTRTWTRGRIPRLSAPPSRGAR GTMA DPRVRQIKITGV\VKRL V\KEKVL YEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QESR MMIPDCQRRLEAA YLDLQRILE NEKDLE\EAEEYKEARLVLD SV KLEA
13598	43966	A	13678	1	436	LLACRSMDCYLAIVHATRTLT QQRHLVKFICLGLRNLFLLLSL RILLFRRTFYPSNVSPVCYEDM GNNTANWWMLLRILPQSFGFIV PL/LIMLFCYRFTLHTL FKAHMG QKHWTMWVIFADVLIILLCWL PYNLVLLADTIMGT
13599	43967	A	13679	1	705	
13600	43968	A	13680	292	1489	
13601	43969	A	13681	434	1205	
13602	43970	A	13682	1	390	

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13603	43971	A	13683	21	479	TYPEAWKLYYRSR*SRDLRKY HAHSVSP*QDQRYTS*KILKCD EHIQKLGSCITDPGNRETSGNT MHTVFHRDKTKDTHPESCCSSE KGGQPLPWFEHRKNVPQFAEP TETLFGPD SGKGAKSLVELLDE SECTSDEEIFISQDEIQSFMANN QSFYSNREQYRQHLKEKFNKY CRLNDHKRPICSGWVDNGWEA
13604	43972	B	13684	32	438	
13605	43973	A	13685	533	1226	
13606	43974	A	13686	1	1566	
13607	43975	A	13687	215	453	
13608	43976	A	13688	1	553	RRPARAAVIKQPPAPGASQHAA TPTQTPLCTPARPLPPMAHVQQ LEGRWRLVDS\KGF**NTMKE\L GVTIALRKMGRNAQAQICIT\S DG*NPSPLKTESTLKT\TQFSC/ LWGEKFEETTA\DGQK\LTNCL STFPDG\AL\VQHQEWDGERKS T\ITKKN*KDGEISWLECVMN\N VTCTPDSMKK
13609	43977	C	13689	11	106	
13610	43978	A	13690	3	155	LCELQKAIDLFTDAIKLNRLAI LYAKRASVFVKLQKPNAAIRD CDRAIEINPDSAQPYKWRGKAH R*ILAWPFCMPRGPVSSSNYRS QMLPSETVTEPLK
13611	43979	A	13691	1	1732	
13612	43980	B	13692	95	1715	
13613	43981	A	13693	1	446	
13614	43982	A	13694	1	786	
13615	43983	A	13695	88	828	

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13616	43984	A	13696	157	1515	RREKMAELKYISGFGNECSSED PRCPGSLPEGQNNPQVCPYNLY AEQLSGSAFTCPRSTNKRSWLY RILPSVSHKPFESIDEGHVTHNW DEVDPDPNQLRWKPFEPKASQ KKVDFVSGLHTLCGAGDIKSN NGLAIHIFLCNTSMENRCFYNS DGDFLIVPQKGNLLIYTEFGKM LVQPNEICVIQRGMRFSIDVFEE TRGYILEVYGVFELPD LGPIG ANGLANPRDFLIPIAWYEDRQV PGGYTVINKYQGKLFAAKQDV SPFNVVAWHGNYTPYKYNLK\ NFMVINSVAFDHADPSIFTVLT AKSVRPGVAIADFVIFPPRWGV ADKTS GPPYYHR\NCMKRFME LIRGQFEQKQGWFLPGGRG/SL HSTMTPHGP\ADADCFEKASKVK LALKRIADGTMA\FMF*SSFNLA GPKWGLQAPRVLDKNYPKCW EPLKSPF\TPNSRNPAEPN
13617	43985	A	13697	1	156	
13618	43986	A	13698	8	306	
13619	43987	C	13699	1	1143	
13620	43988	A	13700	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLLEDCKTPSPSSLGADAI AKQRKTSVSAAASVSATIPIRR VQGPTVVGSWARGVSAAASGP RGTGPKGKARSEKGC SL SHGPQ TNKPLVVQKGQKMEQANHPV GLVISVVYKDILKKIVQRETSHP LIHVRVYAEAITGRRTAPEDKGS LGRDMLAKAGAIYMNMGNKL PIWCHLLEEGIYLEVWALEGQF GRAKNACPVQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLYP VVPNPYTLLSQIPEEAEWFPVL DLKDAFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPQGFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLLATSSEASCQQA TLDLLNFLANQGYKASRSKAQ LCLQQVKYLG LILARGTRTLGK ERIQPILAYPHPKTLKQLWGFL QIT/GFCQLWIPR*SKI
13621	43989	A	13701	188	688	

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13622	43990	A	13702	636	2628	SNDRTEDDCGKHPFMSSPP(TEP WVCLIEGQEIDFLDGTTFSTV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKD
13623	43991	B	13703	302	619	
13624	43992	A	13704	1	5172	
13625	43993	A	13705	1	2091	
13626	43994	A	13706	1	1754	GPRGTGPKGKARSEKCSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIYMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPILGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEAEWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSqliwTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC*LWIPGYSKIARPLYT LIKETQRANTHLVEWESEAETA FKTLKQALVQAPGLSLPTGQNF SLYVTERAGIALGVLTQTRGTT PQPVAHLSKETDVVAKGWPHC LRVVAAVAVLVSEAIKIIQGKD LIVWTTHEVNGILG/AKGSLWL SDKRILFRYQALCLEGLVLQIRT SCGSHLAVTRLWALYF
13627	43995	A	13707	2	887	

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13628	43996	A	13708	3	1750	GWAVPRPGPRGLTVATEAAAA AAAAAAAAAISSRTRAPQAPEGR NRRLEKMADDIDIEAMLEAPY KKDENKLSSANGHEERSKKRK KSKSRSRSHERKRSKSKERKRS RDRERKKSKSRERKRSRSKERR RSRSRSDRRFRGRYRSPYSGP KFNSAIRGKIGLPHSIKLSRRRS RSKSPFRKDKSPVREPIDNLTPE ERDARTVFCMQLAARIRPRDLE EFFSTVGKVRDVRMISDRNSRR SKGIAYVEFVDVSSVPLAIGLTG QRLVGVPIIVQASQAEK\NRAA AMANNLQKGSAGPMRLYVGSS HFNITEDMLRGIFEPFGRIESIQL MMDSETGRSKGYGFITFSDSEC AKKALEQLNGFELAGRPMKVG HVTERTDASSASSFLDSDELER TG\IDLGTTG\RLQLMARLAEG TGLQIPPAQQALQMSGSLAF\ GAVGRNLFCYRFAKQDFSHQT\ ETSALSAAAS\VQPLATQCFQLS NMFNPQTEKEVGWDTEIKDDV IEECNKHGGVIHIYVDKNSAQG NVYVKCPSIAEAIAAVNALHGR WFAGKMITAAYVPLPTYHNLF PDSMTATQLLVPSRR
13629	43997	A	13709	141	343	LHEGLLP*RGHALLSGALHG*C VGSCLFSTPRCLTSSTACGYPS CTPGSCTAWCPASRRLSCWT
13630	43998	A	13710	5	426	
13631	43999	A	13711	1	1188	
13632	44000	A	13712	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDQEAVI DGRRKPEESRTTSHICCRS
13633	44001	A	13713	1	700	
13634	44002	A	13714	3	483	
13635	44003	A	13715	2	361	RRFRAGAGYVVESTGVFTTME KAG AHLQGGAKRVIISAPSADT PMFVMGVNHEKYDNSLKIISNA SCTTNCLA/PPASTGAAKAVGK VPELNGKLTGMAFRVPTANVS VVDLTCRLEKPA
13636	44004	A	13716	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV

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13637	44005	A	13717	1	1079	GTRRQSAASSFASPAEPHRSDT MGKVKVGVNGFGRIGRLVTRA AFNSGKVDIVAINDPFIDLNYM VYMFQYDSTHGKFHGTVKAEN GKLVINGNPITIFQER\YPSKIKW GDAGAEYFVESTGVFTTMEKA GAHLQGGAKRVIISAPSADAPM FVMGVNHEKYDNSLKIISNA\S CTTNCLT\PLAKVIHDNFGIVEG LMTTVHAITATQKTVDGPGSKL WRDGRGALQNIIPASTGAAKA VGKVIPELANGKLTGMAFRVPT ANVSVVDLTCRLEKPAKYDDI KKVVKQA\SEGPLKGILGYTEH QVVSSDFNSDTHSSTFDAGAGI ALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
13638	44006	A	13718	3	483	
13639	44007	A	13719	2	361	RRFRAGAGYVVESTGVFTTME KAGAHQGGAKRVIISAPSADT PMFVMGVNHEKYDNSLKIISNA SCTTNCLA/PPASTGAAKAVGK VIPELANGKLTGMAFRVPTANVS VVDLTCRLEKPA
13640	44008	A	13720	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRP\WHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV
13641	44009	A	13721	1	1079	GTRRQSAASSFASPAEPHRSDT MGKVKVGVNGFGRIGRLVTRA AFNSGKVDIVAINDPFIDLNYM VYMFQYDSTHGKFHGTVKAEN GKLVINGNPITIFQER\YPSKIKW GDAGAEYFVESTGVFTTMEKA GAHLQGGAKRVIISAPSADAPM FVMGVNHEKYDNSLKIISNA\S CTTNCLT\PLAKVIHDNFGIVEG LMTTVHAITATQKTVDGPGSKL WRDGRGALQNIIPASTGAAKA VGKVIPELANGKLTGMAFRVPT ANVSVVDLTCRLEKPAKYDDI KKVVKQA\SEGPLKGILGYTEH QVVSSDFNSDTHSSTFDAGAGI ALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
13642	44010	C	13722	40	243	
13643	44011	A	13723	2	2972	
13644	44012	A	13724	1	602	

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13645	44013	A	13725	1	325	MGRNQSRKAENTKNESASSPP KDRNSSPVREQSWTENEFDELT EVGFRKL VITNFSELKEHVLT D HKEAKNLEKSLEV VAREISQE KEIKVFN*EKRKSNCPCLQMT
13646	44014	A	13726	1	981	
13647	44015	A	13727	1	739	MGRNQSRKAENSKNQSTSSPPK DCSSSPAREQNWTKNFDELTE VGFRSLIANFSKLKECVLTHR KEAKNLEKSDRENGTKLENTL QDIIQENFPNLRQANIQIEIQ RIPQRYSLRRATPRHIIVRFTKV EMKEKMSRAAREKGRVTHKG KPIRLTADLSAENLQARREWGP VFNILKNFQPRIPYPAKLSFISG GEIKSFTDKQMLRDFFTTRPAL QELLKEALNMERNNQYKPLQK HAKW
13648	44016	A	13728	1	1277	MKEQNGGGGREEDHKDKGIRQ LPSLLPSAGEAKSDKPEHHNRY RKEIASFEDEKRAMGVAKMAE QEQLQSAAPSMTNAEVGTAHG GRAEAGRGVDS PGKRKVLGDF PFLAKGSRDRLPGKAGHSLPKY YAFTKVLATGRQERN SINISKK VIYTKTTSTGHQHQRPKIDKTT KMGRNQSRKAENSKNESTSSPP KGHSSSPATEQSGTENDFDEL TEVGFRRSVTTNFYELKEDVQTH RKEAKNLEKRLDKWLTRINSV EKTLSMMELKTMARELRDTC SSFKSRFNQVEERVS VIEDPIY\E LSREDKVRDKKVRNKQSLQEI WDYVVKRPNLRVIGVPESDGEN GTKLENMLQDIIQENFPNLRQ ANIQIEIQRT PQRYSRRATPR HIIVRFTKVEMKQKVLRAAREK GPVTHKGNSGSL
13649	44017	A	13729	1	1584	
13650	44018	A	13730	493	575	SHLPMNPANTRSQRNPTKKKQ KKNVCDNIRELEQQMEDAYR GTRKMLPSSSRMRSDGFDEE SQRYYWRPKNEISGTLEDDFLK AKSWNRKFYDYEANMPDRWGV QVAIKSYTLKNLKQT VVISKILP TGRKHLPR*SHLPMNPANTRSQ RNPTKKKQKKNVCG
13651	44019	A	13731	1	655	
13652	44020	A	13732	2	1664	
13653	44021	A	13733	1	2364	
13654	44022	A	13734	1	224	

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13655	44023	A	13735	1033	7511	
13656	44024	A	13736	56	8669	
13657	44025	A	13737	42	8716	
13658	44026	A	13738	1	5046	
13659	44027	A	13739	1	2298	
13660	44028	A	13740	1	2362	
13661	44029	A	13741	1	2046	
13662	44030	A	13742	1	1503	
13663	44031	A	13743	1	813	
13664	44032	A	13744	185	735	
13665	44033	B	13745	317	910	
13666	44034	A	13746	1	867	
13667	44035	B	13747	1	2325	
13668	44036	A	13748	1	430	
13669	44037	A	13749	1	867	
13670	44038	A	13750	35	518	CLSRRASPVYLASMSGRGKTG GKARAKAKSRSSRAGLQFPVG RVHRLLRKGHYAERVGAGAPV YLAA\LEVAQPLRVLELAGN AA\RSN\KKTRIIPRHLQLAIRND EEL*KLPGLP*RIAQGSR/VLPNI QA\VLLPK\KTSATVG\PKAPSG GKKATQASQEY
13671	44039	A	13751	1	937	
13672	44040	A	13752	1	1096	
13673	44041	A	13753	85	1512	
13674	44042	A	13754	3	2377	
13675	44043	A	13755	1	1134	
13676	44044	A	13756	49	408	
13677	44045	A	13757	47	2603	
13678	44046	A	13758	1	378	
13679	44047	A	13759	1	696	
13680	44048	A	13760	3	401	
13681	44049	A	13761	882	1106	KLHPYTTRQYCHFRI*TDVMAK RSRNAVKGLSALVWCALSDF AGFTPDDGCTRATFFTGGWRK RDCRGAVAGG
13682	44050	A	13762	688	1100	
13683	44051	A	13763	476	552	
13684	44052	B	13764	178	1107	
13685	44053	A	13765	1	198	
13686	44054	B	13766	94	625	
13687	44055	A	13767	1	732	
13688	44056	A	13768	1	4443	
13689	44057	A	13769	216	575	PGAGDRYVGKPVSAAGVTAVSC GVWSSMPDATLIASYQAYTSH VGRIRRSRRJR/TNTARADYPAL TALPFNNFRTHNRFNFNAASVL ASIGIGSSLICAARISAHSGAEH KPREPKAANIK

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13690	44058	A	13770	1018	1489	KLPGQRRFVQTPSHVLHTLSY PTAPAQSSYPAPLSPSQDRAPTL AHQTT*FSASYTANAQWQRVA ADHLKSVRETYAHVRQFSPAL GNAPPDQLPLS*ASCVPKSGAR YSSVIRQNRDRDFRATDHMYVT VPTNRPKMWNPNVTQMNSFRA DTCER
13691	44059	A	13771	1013	1755	GSPGLRPGGAAGKALAPSGCT GNSHRAPM*PGAQAQTRPEKW A*QRP/HVSTGARGARVRALAA VAAAEARAGAAVRAALHT RAAVSAGAAARAVVQVLAAR TREAGAAAAAQGVAQVQAES AIAAWLQAAPVHPLLTVGALE TGWAVADVGRVRVCTPDTQA AVEAGSICTCHPAHLTPQPVEP TRAGAFKGPGLTTAASIGTRV PVTGPRPRDKASGSGRGRAPGA EAAAGGDRDRAEGSSPAL
13692	44060	A	13772	1	1236	
13693	44061	A	13773	1	456	
13694	44062	A	13774	1	219	
13695	44063	A	13775	1707	1853	
13696	44064	A	13776	1	615	QLATFFFGGGLPGGSAPWDPPG EACLWVLVRLPGRTVWVIQFV QLRSFFAPFAHNGRASSGRVS VHYGIAQTAEWAAEICGVGAR KIRELAAIFHQNTIMHFANGG/N PTRRS AVLSSMQGSLPGGC\DA VDIHPVARIVEALENPGGAYQH NGMNRHFPDIRFIWWAGGANF THHQDTNRLIRAWQND SYFRK GRIKAKMGPKLF
13697	44065	A	13777	407	661	ANWIKWRWHRAMHSSSSMWQ TANSLASFISAPVTSSSACRSTL PATRYWCI*WRSSAIWKWVILS GPVATRICTATIWIQLICN
13698	44066	A	13778	1	2448	
13699	44067	A	13779	3	1612	
13700	44068	A	13780	1	1626	
13701	44069	A	13781	3	118	
13702	44070	A	13782	1175	1396	
13703	44071	A	13783	197	933	
13704	44072	A	13784	2	64	IILLNSAPAWM*TFKLPGVDV NYMLHTQNK
13705	44073	A	13785	1	855	
13706	44074	B	13786	1	1605	
13707	44075	A	13787	1	588	
13708	44076	A	13788	1	2769	
13709	44077	A	13789	813	1341	

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13710	44078	B	13790	1	999	
13711	44079	A	13791	1	281	
13712	44080	A	13792	1	1332	
13713	44081	A	13793	1	1384	MPITLRRSVEKEQLIEIANTIMPF GKYKGRRLIDLPEEYLLWFARK DEFPAEARYTHIDLHVPAPLLV MFTLDTRQSACDRNPHLPIHVC SSWTSPKCAPRLWTRALLPRTR TPPYATGTTIGSRASWFVTFPD ASFYRRKAPRQEFHTSLQGRSL YVRQRSTANPTEITRRTLIHKM VEVNACLKQLDNKDIADYEHN QLMRRLRQLIAQSWHTDEIRKL RPSPEAIMTEQEKTSVVEETR EAVDTTSQPVAT
13714	44082	A	13794	1	2004	MTQQITLIKDKILSDNYFTLHNI TYDLTRKDGEVIRHKREYVDR GNGATILLYNTKKKTVVLRQF RVATWVNGNESGQLIESCAGL LDNDEPEVCIRKEAIEETGYEV GEVRKLFELYMSPGGVTELIHF FIAEYSDNQANARGGVEDEDI EVLELVQCGGQIGVPDVLAVF ATGIGFLAMSVTKPRINAQPYP MPWRNLAQLVEHINRTRIHRNL QFTDAFKRRLIDNICRKNNIIGT HTGQSKFSGQTQQIFGEIPQVVP ASELAAAMKQIKELQRLGKK TMENELLKEAVEYGRAKKWIA HAPLLPGDGERTDDWMDGRRS RHTDDTDVLLRIHHVIGELPTY GYRRVWALLRRQAELDGMPAI NAKRVRIMRQNALLERKPA VPPSKRAHTGRVAVKESNQRW CSDGFEECCDNGERLVRTFALD CCDRLSSRGRNAAKRQRDDP LRWKFRLPSSGKLLMPLDQQ APARFAPFVTCTLTILCGTGHV VYTILPIIYDVAIKNNIRPERPM AASSIGAQMGIHSPSVAVVSL VAMLGNVTFDGRHLEFLDLLAI TIPSTLIGILAIGIFSWFRGKDL KDEEFQKFISVPENREYVYVGT ATLLDKKLPKSNWLAMWIFLG AIAVIALLGADSDLRSSF/GGKP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13715	44083	A	13795	3	918	DKTRKRRIRQ*IPNATSFLYQNS PNGLSE*LAPAGTWFAAGNAPASS CGFRDRYLIVCSHQTPHVPQGI TVAAPDARAQAILRIVRQLQRF FHRFEGGHRQHRAKNLLEHP HIVLTKQNRREFEADALQPDPA WQQGTLNGLQWQVLTTPQRP SDRVEIRLLVNTGSLAESTQQS GYSHAIPRIALTQSGGLDAAQA RSLWQQGIDPKRPMPPVIVSYD TTLFNLSLPNNRNDLLKEALSY LANATGKLTITPETINHALQSH DMVATLVFRLYKKGWWRYL KGSTLLSHDPAHPLKQPVEAEK
13716	44084	A	13796	1	1368	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIHLTKTNPASISK NEVFRSGMIAIVAVYGIWMA ETMFAPACYGYIPTYPSDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVLALPATVAG VNFTFSNVPLDSSVLSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLR/PSFGG KPLSMVLVIQMFMLLTGALIHL TKTNPASISKNEVFRSGMIAIVA VYGIWMAETMFAPACYGYI LPTYPSDLAAIQFDRSGTTHIGR FVINHSFILPGLIGVSVSCVFGWI FAAIKRDAAGRAKENVIFHHF PFQSVKADIATNPFKRPGGAFIR ITQTFRTVQTFRLSAYRLDFAG DRLRISTPRAKMRRTAFKKDHLR QRRRCIRQRAPPARHNLVGAV ALPATVAGVNFTFSNVPLDSSV LSLLTDFSTAVGSIVMLAVIM GLMLAFDMGGPVNKVAYAFM LICVAQGVYTVVAIAAVGICIPP LGMGLATLIGRKNFSAEERETG
13717	44085	A	13797	3	2185	
13718	44086	A	13798	1	920	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13719	44087	A	13799	251	479	TQRVDWRSRSSISPGDGLHAFP AFGKEGGKMLDRLRERRDVKT LQQSGSAAGAEFALAGAHPTH GTTA*IQQAINV
13720	44088	A	13800	1	939	
13721	44089	A	13801	1	386	
13722	44090	A	13802	3	524	
13723	44091	A	13803	1	548	
13724	44092	B	13804	67	1144	
13725	44093	A	13805	811	974	VSRRIKLDVTEEFARAGDNKRC ICQ*RHGLAERDIARLLVEIVVI WCDIGVIQA
13726	44094	A	13806	1164	1262	
13727	44095	A	13807	2	894	
13728	44096	A	13808	1	1587	MVKEGTFREDLFYRLNVIHLIL PPLRDRREDISLLANHFLQKFSS ENQRDIIDIDPMASSLTAWSW PGNIRELSNVIERAVVMNSGPPII FSEDLPPQIRQPCNAGEVKTA PVGERNLKEEIKRVEKRIHMEVL EQQEGNRTRTALMLGISRRAL MYKLQEYDATGFFRDGMTIMV GGFMGIGTPSRLVEALLESQVR DLTLIANDTAFVDTGIGPLIVNG RVRKVIASHIGTNPETGRRMISG EMDVVLVPQGTLEQIRCGGAG LGGFLNPTGVGTVVEERQTSID TSTRKRPFELGRPSRNNDKGIRP VDQALDRKNIRE/ALHDSLKRLQ TDYLDLYQVHWPLRPFYCFGK LGYSWTDSAPAVSQDLTDAL AEYQRAGKIRYIGVSNETAFGV MRYLHLADKHDLPRIVTIQNPY SLLNRSFEVGLAEVSQYEGVEL LAYSCLGFGTLTGKYLNGAKP AGARNTLFSRFTRYSGEQTQKA VAAYVDIARRHGLDPAQMALA FVRRQPFVASTL LGATTMDQL
13729	44097	A	13809	1	618	